



# FEDERAL PUBLIC SERVICE COMMISSION

Roll No.

## COMPETITIVE EXAMINATION – 2019 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

### ESSAY

**TIME ALLOWED: THREE HOURS**

**MAXIMUM MARKS: 100**

**NOTE:**(i) Make an outline and write a **COMPREHENSIVE ESSAY** (2500-3000 words) on any **ONE** of the given topics. Make sure you use different forms of discourses, e.g. exposition, argumentation, description and narration. Credit will be given for organization, relevance and clarity.  
(ii) No Page/Space be left blank between the answer. All the blank pages of Answer Book must be crossed.

1. **Let there be more light in the corridors of worship places.**
2. **New war fronts lie in economic zones.**
3. **Urdu literature and Progressive Movement.**
4. **Art for peace.**
5. **Truth is lived, not taught.**
6. **New waves of feminism and our culture.**
7. **Democracy and Illiteracy do not move together.**
8. **Sometimes we do not see what we see.**
9. **Expanding Information Technology; A curse or blessing.**
10. **Classrooms decide the future of the nation.**

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**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION – 2019  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT  
ENGLISH (PRECIS & COMPOSITION)**

Roll Number

**TIME ALLOWED: THREE HOURS**  
**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-I (MCQS)**  
**PART-II**

**MAXIMUM MARKS = 20**  
**MAXIMUM MARKS = 80**

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.**  
**(ii) Attempt ALL questions from PART-II.**  
**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**  
**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**  
**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**  
**(vi) Extra attempt of any question or any part of the question will not be considered.**

**PART-II**

- Q. 2. Write a précis of the following passage and also suggest a suitable title: (20)**

I think modern educational theorists are inclined to attach too much importance to the negative virtue of not interfering with children, and too little to the positive merit of enjoying their company. If you have the sort of liking for children that many people have for horses or dogs, they will be apt to respond to your suggestions, and to accept prohibitions, perhaps with some good-humoured grumbling, but without resentment. It is no use to have the sort of liking that consists in regarding them as a field for valuable social endeavour, or what amounts to the same thing as an outlet for power-impulses. No child will be grateful for an interest in him that springs from the thought that he will have a vote to be secured for your party or a body to be sacrificed to king and country. The desirable sort of interest is that which consists in spontaneous pleasure in the presence of children, without any ulterior purpose. Teachers who have this quality will seldom need to interfere with children's freedom, but will be able to do so, when necessary, without causing psychological damage.

Unfortunately, it is utterly impossible for over-worked teachers to preserve an instinctive liking for children; they are bound to come to feel towards them as the proverbial confectioner's apprentice does towards macaroons. I do not think that education ought to be anyone's whole profession: it should be undertaken for at most two hours a day by people whose remaining hours are spent away from children. The society of the young is fatiguing, especially when strict discipline is avoided. Fatigue, in the end, produces irritation, which is likely to express itself somehow, whatever theories the harassed teacher may have taught himself or herself to believe. The necessary friendliness cannot be preserved by self-control alone. But where it exists, it should be unnecessary to have rules in advance as to how "naughty" children are to be treated, since impulse is likely to lead to the right decision, and almost any decision will be right if the child feels that you like him. No rules, however wise, are a substitute for affection and tact.

- Q. 3. Read the following passage carefully and answer the questions that follow: (20)**

When I returned to the common the sun was setting. The crowd about the pit had increased, and stood out black against the lemon yellow of the sky—a couple of hundred people, perhaps. There were raised voices, and some sort of struggle appeared to be going on about the pit. Strange imaginings passed through my mind. As I drew nearer I heard Stent's voice: "Keep back! Keep back!" A boy came running towards me. "It's movin'," he said to me as he passed; "it's screwin' and screwin' out. I don't like it. I'm goin' home, I am." I went on to the crowd. There were really, I should think, two or three hundred people elbowing and jostling one another, the one or two ladies there being by no means the least active. "He's fallen in the pit!" cried someone. "Keep back!" said several. The crowd swayed a little, and I elbowed my way through. Everyone seemed greatly excited. I heard a peculiar humming sound from the pit. "I say!" said Ogilvy. "Help keep these idiots back. We don't know what's in the confounded thing, you know!" I saw a young man, a shop assistant in Woking I believe he was, standing on the cylinder and trying to scramble out of the hole again. The crowd had pushed him in. The end of the cylinder was being screwed out from within. Nearly two feet of shining screw projected. Somebody blundered against me, and I narrowly missed being pitched onto the top of the screw. I turned, and as I did so the screw must have come out, for the lid of the cylinder fell upon the gravel with a ringing concussion. I stuck my elbow into the person behind me, and turned my head towards the Thing again. For a moment that circular cavity seemed perfectly black. I had the sunset in my eyes. I think everyone expected to see a man emerge—possibly something a little unlike us terrestrial men, but in all essentials a man. I know I did. But, looking, I presently saw something stirring within the shadow: greyish billowy movements, one above another, and then two luminous disks-like eyes. Then something resembling a little grey snake, about the thickness of a walking stick, coiled up out of the writhing middle, and wriggled in the air towards me—and then another. A sudden chill came over me. There was a loud shriek from a woman behind. I half turned, keeping my eyes fixed upon the cylinder still, from which other tentacles were now projecting, and began pushing my way back from the edge of the pit. I saw astonishment giving place to horror on the faces of the people about me. I heard inarticulate exclamations on all sides. There was a general movement backwards. I saw the shopman struggling still on the edge of the pit. I found myself alone, and saw the people on the other side of the pit running off, Stent among them. I looked again at the cylinder and ungovernable terror gripped me. I stood petrified and staring. A big greyish rounded bulk, the size, perhaps, of a bear, was rising slowly and painfully out of the cylinder. As it bulged up and caught the light, it glistened like wet leather. Two large dark-coloured eyes were regarding me steadfastly. The mass that framed them, the head of the thing, was rounded, and had, one might

## ENGLISH (PRECIS & COMPOSITION)

say, a face. There was a mouth under the eyes, the lipless brim of which quivered and panted, and dropped saliva. The whole creature heaved and pulsated convulsively. A lank tentacular appendage gripped the edge of the cylinder, another swayed in the air. Those who have never seen a living Martian can scarcely imagine the strange horror of its appearance. The peculiar V-shaped mouth with its pointed upper lip, the absence of brow ridges, the absence of a chin beneath the wedge like lower lip, the incessant quivering of this mouth, the Gorgon groups of tentacles, the tumultuous breathing of the lungs in a strange atmosphere, the evident heaviness and painfulness of movement due to the greater gravitational energy of the earth above all, the extraordinary intensity of the immense eyes—were at once vital, intense, inhuman, crippled and monstrous. There was something fungoid in the oily brown skin, something in the clumsy deliberation of the tedious movements unspeakably nasty. Even at this first encounter, this first glimpse, I was overcome with disgust and dread.

- Questions:**
1. What leads us to believe that this passage is from a science fiction story? (4)
  2. How was the crowd behaving? (4)
  3. Why did the mood of the crowd alter? (4)
  4. What was the narrator's initial reaction to the "Thing"? (4)
  5. Why did the writer feel disgusted? (4)

**Q. 4. Correct only FIVE of the following: (10)**

- (i) He enjoyed during the holidays.
- (ii) None of the boys had learnt their lesson.
- (iii) He is abusing the money of his father.
- (iv) I regret at the delay.
- (v) I could not help but laugh.
- (vi) I always have and always shall be your friend.
- (vii) I was out walking when I saw the new moon in the garden.
- (viii) He cried as if he was mad.

**Q. 5. (a) Punctuate the following text, where necessary. (5)**

a hungry lion slipped out of the forest into a barnyard one evening when he saw a plump donkey his mouth began to water but just as he was ready to jump on the donkey a rooster crowed he was frightened and so turned away into the forest again hey look at that cowardly lion the donkey brayed to the rooster i am going to chase him and the donkey ran after the lion wait the rooster shouted you dont know that but it was too late the lion had turned and killed the donkey ah my poor stupid friend the rooster said as he watched the lion eating the donkey the lion wasnt afraid of you but of my crowing

**(b) Re-write the following sentences (ONLY FIVE) after filling in the blanks with appropriate prepositions. (5)**

- (i) What time do we arrive \_\_\_\_\_ our destination?
- (ii) We are flying \_\_\_\_\_ some rough weather; please fasten your seat belts.
- (iii) It is warming up; \_\_\_\_\_ noon we should be able to go swimming.
- (iv) My parents are not responsible \_\_\_\_\_ my actions.
- (v) This pan is \_\_\_\_\_ cooking omelettes.
- (vi) \_\_\_\_\_ poor attendance, this course is being cancelled.
- (vii) The police took the men in \_\_\_\_\_ questioning.
- (viii) The woman you gave the book \_\_\_\_\_ is my aunt.

**Q. 6. Use ONLY FIVE of the following in sentences which illustrate their meanings. (10)**

- |                                 |                               |
|---------------------------------|-------------------------------|
| (i) To cast pearls before swine | (ii) To step into one's shoes |
| (iii) Stuff and nonsense        | (iv) A wild goose chase       |
| (v) To be ill at ease           | (vi) Sit on the fence         |
| (vii) In a jiffy                | (viii) To preen oneself       |

**Q. 7. Translate the following into English by keeping in view figurative/idiomatic expressions. (10)**

پاکستان، افغانستان میں امن کے لیے پُر عزم ہے کیونکہ افغانستان میں امن، پاکستان کے لیے انتہائی اہم ہے۔ تاریخی تناظر میں دیکھا جائے تو پاکستان اور افغانستان پر دوسری بار اور اسلامی ملک ہونے کے ناتے تاریخی، ثقافتی، لسانی رشتوں میں جڑے ہوئے ہیں۔ یہ رشتے ٹوٹ ہیں، دونوں کا انحصار ایک دوسرے پر ہے اور دونوں الگ الگ رہ بھی نہیں سکتے۔ پاکستان کا موقف روز اول سے یہی رہا ہے کہ افغان مسئلے کا سیاسی حل نکالا جائے۔ اس موقف کی حمایت چین بھی کرتا ہے۔ اس ضمن میں چین نے کہا ہے کہ افغان تنازع کا افغان قیادت میں ہونے والے امن مذاکرات سے ہی حل ممکن ہے۔ پاکستان اور چین اسٹیبلشمنٹ

داری کے لیے افغان تنازع کو مذاکرات کے ذریعے حل کرنے میں اپنا کردار ادا کریں گے۔

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Roll Number

**GENERAL KNOWLEDGE-I  
(GENERAL SCIENCE & ABILITY)**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>

- NOTE:** (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt **ONLY FOUR** questions from PART-II by selecting **TWO** questions from **EACH SECTION**. ALL questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

**PART – II  
SECTION – I**

- Q. 2.** (a) Deficiency of vitamins causes different human diseases some of which are given in the table below. Choose the correct type of vitamin from the box and write in front of each disease: (5)

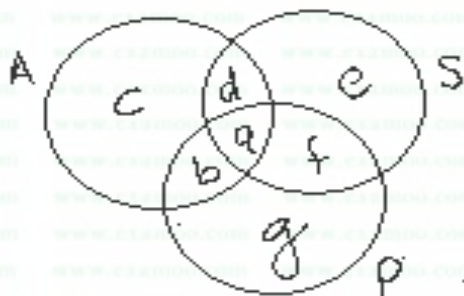
Vit. A	Vit. B <sub>1</sub>	Vit. C	Vit. D	Vit.E	Vit.K
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Disease caused due to lack of Vitamin	Name of the Vitamin
1. Poor night Vision	
2. Bleeding Gums	
3. Rickets in Children	
4. Beri-Beri	
5. Anaemia	

- (b) People suffering from cardiovascular diseases have a high level of cholesterol in their blood. This often leads to a build up of fats on the internal arterial walls. Suggest how this might be harmful to the heart. (5)
- (c) Why the excessive use of chemical fertilizers should be avoided? (5)
- (d) Why are scientists worried about the increase of Carbon Dioxide in the atmosphere? (5) (20)
- Q. 3.** (a) Differentiate between the Renewable and Non-Renewable sources of energy giving examples of each one of them. (5)
- (b) Give a brief account of Optic Fibres. What is their importance in present day telecom system? (5)
- (c) What is the most dangerous part of a hurricane and how do cyclones affect humans? (5)
- (d) What's the difference between vaccines and antibiotics? How do antibiotics and vaccines contribute to health? (5) (20)
- Q. 4.** (a) What is the importance of forests in the economy of a country? (5)
- (b) Give a brief account of Biotechnology. (5)
- (c) Do the mammals also lay eggs? If yes, where in the world do they live? Write the name of some of them. (5)
- (d) How can the Sun have such a strong gravitational field if it's made of gases? (5) (20)
- Q. 5.** (a) What does Ozone depletion mean and how can we protect the ozone layer? (5)
- (b) What are the different types of a network? Explain each briefly. (5)
- (c) Why an indiscriminate/casual use of Antibiotics may prove dangerous? (5)
- (d) Why do atoms form bonds? Name three major types of chemical bonds. (5) (20)

SECTION – II

- Q. 6.** (a) Moiz was trying to sleep at one night but there was too much noise around him. His clock ticked every 5 second: a tap was dipping every 7 second and a pet dog snored every 12second. He noticed on his clock that all three things happened together on the stroke of mid night. Find after how many seconds all three things happened together again? (5)
- (b) One pipe can fill a pool 1.25 times as fast as a second pipe. When both pipes are opened they fill the pool in five hours. How long would it take to fill the pool if only the slower pipe is used? (5)
- (c) The cost for hiring a car for 2 days in 2018 was Rs 264 which was 20% more than in 2013. What was the cost of hiring a car for 2 days in 2013? (5)
- (d) What do you understand by measure of central tendency? State its types. (5) (20)
- Q. 7** (a) Moiz and Mair share a lottery win of Rs 2000 in the ratio 1:4. Moiz then share his part between himself, his wife and their son in the ratio 4:5:1. How much more does his wife get over their son. (5)
- (b) A farmer keeps hens and rabbits on his farm. One day, he counted a total of 70 heads and 196 legs. How many more hens than rabbits does he have? (5)
- (c) What is polygon? Describe different types of regular polygon. (5)
- (d) In a certain code, computer is written as RFUVQNPC. How will MEDICINE be written in code language? (5) (20)
- Q. 8.** (a) Seven piano students- T, U, V, W, X, Y and Z-are given a recital and their instructor is deciding the order in which they will perform. Each student will play exactly one piece, a piano solo. In deciding the order of performances, the instructor must observe the following restrictions: (5)
- (i) X cannot play first or second  
W cannot play until X has played.  
Neither T nor Y can play seventh.  
Either Y or Z must play immediately after W plays.  
V must play immediately after or immediately before U plays
- (ii) If V plays first, which one of the following must be true  
T plays sixth  
X plays third  
Z plays seventh  
T plays immediately after Y  
W plays immediately after X
- (b)  $U = \{\text{Whole number from 10 to 24}\}$  (5)  
 $A = \{\text{Even number}\}$   
 $B = \{\text{Number divisible by 5}\}$   
Write down the number of elements of  $A \cap B$ .
- (c) In the following diagram A represent American, S represent scientists and P represent politicians. (5)



- (i) American those are politicians but not scientists will be?  
(ii) Scientists which are politicians but not Americans will be?
- (d) Each packet of washing powder carries a token and 4 tokens can be exchanged for free packet. How many free packets will I receive if I buy 64 packets? (5) (20)

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**Roll Number**

**GENERAL KNOWLEDGE-II**  
**(CURRENT AFFAIRS)**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>

- NOTE:** (i) **Part-II** is to be attempted on the separate **Answer Book**.  
(ii) Attempt **ONLY FOUR** questions from **PART-II**. **ALL** questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

**PART – II**

- Q. No. 2.** Examine China Strategic Vision behind ‘The Belt and Road Initiative (BRI)’, also known as the One Belt One Road (OBOR). (20)
- Q. No. 3.** Elaborate the reasons and impacts of Donald trump’s withdrawal from Climate Change Paris Agreement 2015? (20)
- Q. No. 4.** What could be the reasons of emerging water conflict between Pakistan and Afghanistan? (20)
- Q. No. 5.** Give a critical review of Pakistan National Energy Policy 2013-2018. (20)
- Q. No. 6.** How can the corruption elimination strategy be made part of the governance system of Pakistan? (20)
- Q. No. 7.** How can the governing structures have the capacity to neutralize threats to internal security of Pakistan? (20)
- Q. No. 8.** Discuss the instruments and techniques of ‘Hybrid’ warfare in context to Pakistan. (20)

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Roll Number

**GENERAL KNOWLEDGE-III**  
**(PAKISTAN AFFAIRS)**

**TIME ALLOWED: THREE HOURS**

**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-I (MCQS)**

**PART-II**

**MAXIMUM MARKS = 20**

**MAXIMUM MARKS = 80**

**NOTE: (i) Part-II is to be attempted on the separate Answer Book.**

**(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.**

**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**

**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**

**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**

**(vi) Extra attempt of any question or any part of the question will not be considered.**

**PART – II**

**Q. No. 2.** Critically examine Congress Ministries of 1937. How far it is correct to suggest that it paved the way for a separate Muslim homeland in India? (20)

**Q. No. 3.** How far the nature of Centre-Province relations has changed under various amendments to the 1973 constitution? Evaluate. (20)

**Q. No. 4.** What major economic challenges are being faced by Pakistan? What recommendations do you suggest to deal with these issues? (20)

**Q. No. 5.** “The population growth in Pakistan can erupt like an atomic bomb”. Comment. (20)

**Q. No. 6.** What are the main causes of the energy crisis in Pakistan? What measures do you recommend to address it? (20)

**Q. No. 7.** Critically analyze the key causes of delaying construction of DAMS in Pakistan. Give some suggestions to revert this collateral loss. (20)

**Q. No. 8.** Efficient use of its natural resources can make Pakistan a prosperous nation. Discuss in the light of present situation of Pakistan. (20)

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Roll Number

**ISLAMIC STUDIES**

TIME ALLOWED: THREE HOURS

PART-I(MCQS): MAXIMUM 30 MINUTES

PART-I (MCQS)

PART-II

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.

(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.

(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

(vi) Extra attempt of any question or any part of the question will not be considered.

**PART-II**

- Q. No. 2. Define *Tauheed*. What is its impact on individual life and the society? Elaborate. (20)
- Q. No. 3. Give a general estimate of the Holy Prophet's (ﷺ) character in the battle fields as a commander. (20)
- Q. No. 4. Describe the rights of women in Islam in context of current wave of the feminist movement. (20)
- Q. No. 5. Throw light in detail on the moral values system of Islam as a significant feature of Islamic civilization. (20)
- Q. No. 6. Write a comprehensive note on *Hajj* (the pilgrimage) and its spiritual, moral and social impacts. (20)
- Q. No. 7. Is extremism a challenge to Islam? Discuss in the context of contemporary challenges faced by Muslim *Ummah*. (20)
- Q. No. 8. Give suggestions to reform Pakistani politics keeping in view the different aspects of political system of Islam. (20)

**URDU VERSION**

- (20) سوال نمبر 2: توحید کی تعریف کیجئے۔ اس کے معاشرے اور انفرادی زندگی پر کیا اثرات مرتب ہوتے ہیں؟ وضاحت کیجئے۔
- (20) سوال نمبر 3: میدان جنگ میں ایک سپہ سالار کی حیثیت سے نبی اکرم ﷺ کے کردار کا جامع خاکہ پیش کیجئے۔
- (20) سوال نمبر 4: تحریک حقوق نسواں کی موجودہ لہر کے تناظر میں اسلام میں خواتین کے حقوق بیان کیجئے۔
- (20) سوال نمبر 5: اسلامی تہذیب کی اہم خصوصیت کے طور پر اسلام کے نظام اخلاق پر تفصیل سے روشنی ڈالئے۔
- (20) سوال نمبر 6: اسلام میں حج اور اس کے روحانی، اخلاقی اور سماجی اثرات پر تفصیلی شذرہ قلمبند کیجئے۔
- (20) سوال نمبر 7: کیا انتہا پسندی اسلام کے لیے ایک چیلنج ہے؟ مسلم امہ کو درپیش عصری چیلنجز کی روشنی میں بحث کیجئے۔
- (20) سوال نمبر 8: اسلام کے سیاسی نظام کے مختلف پہلوؤں کی روشنی میں تجاویز دیجئے کہ پاکستانی سیاست کی اصلاح کیونکر ممکن ہے؟

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Roll Number

**ACCOUNTANCY & AUDITING, PAPER-II**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>

**NOTE:** (i) **Part-II** is to be attempted on the separate **Answer Book**.  
(ii) Attempt **ONLY FOUR** questions from **PART-II** by selecting at least **ONE** question from **EACH SECTION**. **ALL** questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.  
(vii) **Use of Calculator is allowed.**

**PART – II**  
**SECTION – I (AUDITING)**

- Q. 2.** Explain shortly all audit assertions related to class of transactions (revenue and expenses), account balances (assets/liabilities/equities), and presentation & disclosure. **(20)**
- Q. 3.** Define and explain different types of audit risks. How these risks are used to manage the audit assignment. **(20)**
- Q. 4.** What are Computer Assisted Audit Techniques (CAATs) that can be used in e-commerce environment. **(20)**

**SECTION – II (BUSINESS TAXATION)**

- Q. 5.** (a) Explain the concept of input tax, output tax, zero rated supply, exempt supply and input tax credit. **(10)**
- (b) From the following data, calculate the tax payable by Mr. Aslam for the year ended 30<sup>th</sup> June 2018: **(10) (20)**
- (i) Salary Rs. 19,500 pm.
  - (ii) Special pay Rs. 3,000 p.m
  - (iii) Bonus for the year Rs. 38,000.
  - (iv) Conveyance allowance Rs. 1,500 p.m
  - (v) Free accommodation provided by the employer. He was entitled to a house allowance of Rs. 72,000.
  - (vi) Medical expenses reimbursed by his employer under the contract of employment Rs. 24,000.
  - (vii) Zakat paid under Zakat Ordinance during the year Rs. 11,300.
  - (viii) Donation to approved charitable institutions under section 61 Rs. 15,000.
  - (ix) Legal expenses during the year Rs. 6,000.
  - (x) Amount paid for approved pension scheme during the year Rs. 90,000.
  - (xi) Shares of listed companies purchased Rs. 6,000.
- Q. 6.** (a) What deductions are not allowed to be deducted before arriving at the taxable profits of a business? **(10)**

## ACCOUNTANCY & AUDITING, PAPER-II

- (b) Mr. Mohammad Adil received the following emoluments during the year ended 30<sup>th</sup> June 2018. (10) (20)
- |  |                |
|--|----------------|
| (i) Basic Salary (Scale 55,000-5,000-70,000)   | Rs.60,000 P.M. |
| (ii) House rent allowance                      | 25,000 P.M     |
| (iii) Utilities allowance                      | 14,250 P.M     |
| (iv) Medical allowance                         | 10,000 P.M.    |
| (v) Agricultural income                        | 130,000 P.M.   |
| (vi) Payment of Loan installment on 30.06.2018 | 1,00,000       |

He claims the following deductions:

- |                           |          |
|---------------------------|----------|
| (i) Zakat paid            | 67,428   |
| (ii) Investment in shares | 2,25,000 |

### Notes

- (i) Mr. Mohammad Adil received an interest free loan of Rs. 12,00,000 from his employer on 01.07.2017.
- (ii) His employer has provided him a new car to be used for personal and official purposes. The car costs the employer Rs. 15,00,000.

**Required.** Calculate the tax payable by Mr. Mohammad Adil.

## SECTION – III (BUSINESS STUDIES AND FINANCE)

- Q. 7. (a) Explain Yield To Maturity (YTM), its calculation, and the procedure used to value bonds that pay interest semiannually. (8)
- (b) Joan Messineo borrowed \$15,000 at a 14% annual rate of interest to be repaid over 3 years. The loan is amortized into three equal, annual, end-of-year payments. (12) (20)
- (i) Calculate the annual, end-of-year loan payment.
- (ii) Prepare a loan amortization schedule showing the interest and principal breakdown of each of the three loan payments.
- (iii) Explain why the interest portion of each payment declines with the passage of time.
- Q. 8. (a) Explain the relationships among financial decisions, return, risk and the firm's value. (10)
- (b) Nicholson Roofing Materials, Inc., is considering two mutually exclusive projects, each with an initial investment of \$150,000. (10) (20)
- The company's board of directors has set a maximum 4-year payback requirement and has set its cost of capital at 9%. The cash inflows associated with the two projects are shown in the following table:

Cash inflows (CF <sub>t</sub> )		
Year	Project A	Project B
1	\$45,000	\$75,000
2	45,000	60,000
3	45,000	30,000
4	45,000	30,000
5	45,000	30,000
6	45,000	30,000

- (i) Calculate the payback period for each project.
- (ii) Calculate the NPV of each project at 10%
- (iii) Calculate the NPV of each project at 9%.
- (iv) Derive the IRR of each project.
- (v) Rank the projects by each of the techniques used. Make and justify a recommendation.



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**ACCOUNTANCY AND AUDITING, PAPER-I**

Roll Number

**TIME ALLOWED: THREE HOURS**  
**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-I (MCQS)**  
**PART-II**

**MAXIMUM MARKS = 20**  
**MAXIMUM MARKS = 80**

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.**  
**(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.**  
**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**  
**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**  
**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**  
**(vi) Extra attempt of any question or any part of the question will not be considered.**  
**(vii) Use of Calculator is allowed.**

**PART – II**  
**SECTION – I**

**Q. No. 2.** Some amounts are omitted in each of the following financial statements. **(20)**

<u>XY. Co.</u>	
Total assets	Rs. 37,500
Total liabilities	?
Common stock	2,500
Retained earnings	13,500
Revenue	24,000
Expenses	?
Retained earnings, Jan. 1	?
Net income	7,500
Dividends	6,000
Retained earnings, Dec. 31	13,500

**Instruction:** Determine the missing amounts.

- Q. No. 3.** (a) Burno Co. purchased equipment on Jan. 1, 2005 at a total invoice cost of Rs.280,000, additional costs of Rs.5,000 for freight and Rs.25,000 for installation were incurred. The equipment has an estimated salvage value of Rs.10,000 and an estimated useful life of five years. What is the amount of accumulated depreciation at Dec. 31,2006 if the straight-line method of depreciation is used? **(8)**
- (b) A plant asset cost Rs.27,000 when it was purchased on Jan. 1, 2008. It was depreciated by the straight-line method based on a 9-year life with no salvage value. On June 30, 2008, the asset was discarded with no cash proceeds. What gain or loss should be recognized on the retirement? Pass the entry. **(6)**
- (c) On June 30, 2010 B. Co. sells office furniture for Rs.60,000 cash. The office furniture originally cost Rs.150,000 when purchased on Jan 1, 2005. Depreciation is recorded by the straight-line method over 10 years with a Salvage value of Rs.15,000. **(6) (20)**

**Q. No. 4.** The balance sheet of AB Ltd. is as under: **(20)**

Liabilities		Assets	
Equity share capital (Rs. 100 each)	1,000,000	Plant & equipment	640,000
Retained earning	368,000	Land & building	80,000
Sundry creditors	104,000	Cash	160,000
Bills payable	200,000	Sundry debtors 360,000	
Other current liabilities	20,000	Allowance for B/D (40,000)	320,000
		Inventory	480,000
		Prepaid expenses	12,000
	<u>1,692,000</u>		<u>1,692,000</u>

**Required:**

- Compute the following:
- |                          |                      |
|--------------------------|----------------------|
| 1. Working capital       | 2. Current ratio     |
| 3. Quick or liquid ratio | 4. Super quick ratio |

**SECTION – II**

**Q. No. 5.** The AB & Co produces a chemical which requires processing in three departments. (20)  
The following is the data to the operation of department III for September, 2008.

Units in process at start 50% completed as to Mat. & C.C	5,000
Unit received from Department II	40,000
Unit transferred to finished store room	35,000
Normal units lost	1,000
Balance of units is in process:	
100% completed as to material & 50% as to C.C.	
Cost of beginning inventory P.D.Rs.10, 000 .Mat.Rs.10, 000. CC. Rs.5000	
Cost transferred from Department II	
Rs.30, 000	
Cost added:	
Material	Rs. 8,800
Conversion cost	Rs.16200

**Required:** Prepare cost of production report of Department III by Weighted Average.

**Q. No. 6. (a)** K Co. was totally destroyed by fire during June. However, certain fragments (10)  
of its cost records with the following data were recovered: idle capacity variance, Rs.1,266 favorable; spending variance, Rs.879 unfavorable; and applied factory overhead Rs.16, 234.

**Required:**

Determine (1) The budget allowance, based on capacity utilized, and (2) the actual factory overhead.

**(b)** A Co. uses 100% Bonus plan with a wage rate of Rs.20 per hour and the standard production is 40 units per hour. Bonus will be given for the time saved. Following is the data of Mr. X: (10) (20)

	<u>Units produced</u>
Monday	360
Tuesday	400
Wednesday	350

**Required:** Determine Mr. X's total earning, the time saved, daily earnings and the labor cost per unit.

**Q. No. 7.** ABC Company's most recent contribution format income statement is shown below: (20)

	<u>Total</u>	<u>Per Unit</u>
Sales (20,000 units)	\$300,000	\$15
Less variable expenses	<u>180,000</u>	<u>9</u>
Contribution margin	120,000	<u>6</u>
Less fixed expenses	<u>70,000</u>	
Net operating income	<u>\$50,000</u>	

**Required:**

Prepare a new contribution format income statement under each of the following conditions.

- (a)** Sales volume increases by 15%.
- (b)** Selling price decreases by \$1.5 per unit, and sales volume increases by 25%.
- (c)** Selling price increases by \$1.5 per unit, fixed expenses increases by \$20,000 and the sales volume decreases by 5%.
- (d)** Selling price increases by 12%, variable expense increases by 60% per unit and sales volume decreases by 10 %.

**Q. No.8.** The following information is gathered from the labor records of Binamul & Co. Payroll allocation for direct labor is Rs. 1, 31,600

Time card analysis shows that 9,400 hours were worked on productions lines.

Production reports for the period showed that 4,500 units have been completed, each having standard labor time of 2 hours and a standard labor rate of Rs. 15 per hour. Calculate the labor variances.

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Roll Number

**AGRICULTURE & FORESTRY**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART – II**  
**SECTION – I**

- Q. No. 2.** What is the role of natural resources (soil, water and solar energy) in crop production? (20)  
Discuss innovative and technologically advanced approaches that could be used to improve efficiency of these resources.
- Q. No. 3.** Why is it considered necessary to keep pest population down for a good crop production? Discuss integrated management and control practices for agricultural pests and diseases taking account of effectiveness, economic and environmental acceptability of these practices. (20)
- Q. No. 4.** What are the main issues of livestock, fisheries and cottage industries in Pakistan? (20)  
Discuss options for improvement of these industries in the country taking account of market risks and government policies.
- Q. No. 5.** Agricultural biotechnology is considered a short gun approach to improve productivity of traditional agriculture systems. What is the scope of this technology in Pakistan? (20)  
Discuss in the light of the possible benefits and risks related to embracing different types of agricultural biotechnology.

**SECTION – II**

- Q. No. 6.** What combinations of forestry, agroforestry, grass cover, water-collecting systems and storage facilities, drought-resistant crops and water-saving technologies are needed in dryland areas of Pakistan in order to increase food production, and to what extent can they become cost-effective? (20)
- Q. No. 7.** In view of the present status of forests in Pakistan, what could be the most practical and economical methods of wood utilization in general and in wood based industry of the country in particular? (20)
- Q. No. 8.** Why is rangeland so important for agricultural economy of Pakistan? Explain the need, ways and means for integrated management of grazing lands, cropland and livestock production in Pakistan. (20)

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**Roll Number**

**ANTHROPOLOGY**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART – II**

- Q. No. 2.** Discuss the fields and branches of anthropology. (20)
- Q. No. 3.** Define primitive economic organization. Discuss the scope and relevance of economic organization with anthropology. (20)
- Q. No. 4.** Discuss various conditions and factors responsible for social change and development in simple societies. (20)
- Q. No. 5.** Give a distinction between technique, method and methodology. What tools of data collection are usually used in anthropology? (20)
- Q. No. 6.** Discuss in detail family institution and its various types on the basis of structure, blood relation, marriage, residence and succession. (20)
- Q. No. 7.** Discuss and compare various forms of divine religions with other world religion including Hinduism, Buddhism, and Jainism. (20)
- Q. No. 8.** Discuss in detail the process of Social Control in primitive societies. (20)

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Roll Number

APPLIED MATHEMATICS

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS = 100

- NOTE:**(i) Attempt **ONLY FIVE** questions. **ALL** questions carry **EQUAL** marks  
(ii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iii) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(iv) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(v) Extra attempt of any question or any part of the attempted question will not be considered.  
(vi) **Use of Calculator is allowed.**

**Q. No. 1. (a)** Find the directional derivative of  $f(x, y, z) = x y^2 + y z^2$  at the point  $(2, -1, 1)$  in the direction of the vector  $i + 2j + 2k$ ? (10)

**(b)** Evaluate  $\int_c (xy + y^2)dx + x^2dy$  where  $c$  is bounded by the line  $y = x$  and the curve  $y = x^2$  (10)

**Q. No. 2. (a)** Find the constants  $a, b,$  and  $c$  so that  $F = (x + 2y + az) i + (bx - 3y - z) j + (4x + cy + 2z) k$  is irrotational and hence find the function  $\psi$  such that  $F = \nabla \psi$  (10)

**(b)** The forces  $F_1, F_2, F_3, F_4, F_5$  and  $F_6$  act along the sides of a regular hexagone taken in order. Verify that all the forces will be in equilibrium if,  $\sum F = 0,$  and  $F_1 - F_4 = F_3 - F_6 = F_5 - F_2.$  (10)

**Q. No. 3. (a)** A system of forces acts on a plate in the form of an equilateral triangle of side  $2a.$  The moment of the forces about the three vertices are  $M_1, M_2$  and  $M_3$  respectively. Find the magnitudes of the resultant. (10)

**(b)** If a particle  $P$  move with a velocity  $V$  given by  $V^2 = n^2 (ax^2 + 2bx + c).$  Show that  $P$  executes a simple harmonic motion. Find the centre, the amplitude and the time period of the motion? (10)

**Q. No. 4. (a)** What is the difference between linear differential equation and Bernoulli's equation? Also find the solution of the following differential equation. (10)

$$x \left[ \frac{dy}{dx} + y \right] = 1 - y$$

**(b)** Use the method of undetermined coefficient to solve the following differential equation. (10)

$$y'' - 3y' + 2y = 2x^3 - 9x^2 + 6x$$

**Q. No. 5. (a)** Solve the equation (10)

$$0 = \frac{1}{2} + \frac{1}{4}x^2 - x \sin x - \frac{1}{2} \cos 2x \quad \text{with } x_0 = \frac{\pi}{2}$$

**(b)** Derive two point Gaussian integration formula for the following integral and use it to solve the integral. (10)

$$\int_1^{1.6} \frac{2x}{x^2 - 4} dx$$



**Q. No. 6. (a)** Determine the second degree polynomials by using Newton’s method. Also estimate the value of  $f(0.1)$  and  $f(0.5)$  for the data. **(10)**

$x$	0.0	0.2	0.4	0.6
$f(x)$	15.0	21.0	30.0	51.0

**(b)** Does the dominate diagonal is necessary for finding the numerical solution of system of linear equations by using Gauss Jacobi’s and Gauss Seidal methods. Explain the reason. In what conditions a numerical method is used instead of analytical method? Find the solution of the following system by performing three iterations of Gauss Seidal method. **(10)**

$$\begin{aligned} 6x - 3y + z &= 11 \\ 2x + y - 8z &= 15 \\ x - 7y + z &= 10 \end{aligned}$$

**Q. No. 7. (a)** Define even function and odd function with examples. Verify that the Fourier **(10)**

Series for the function  $f(x) = \begin{cases} 0 & \text{When } 0 < x < \pi \\ 1 & \text{When } \pi < x < 2\pi \end{cases}$

is  $f(x) = \frac{1}{2} - \frac{2}{\pi} \left( \sin x + \frac{1}{3} \sin 3x + \frac{1}{5} \sin 5x + \dots \right)$

**(b)** Solve the following partial differential equation by using method of separable variable. **(10)**

$$\frac{\partial u}{\partial x} = 2 \frac{\partial u}{\partial t} + u, \quad \text{given } u(x, 0) = 6e^{-3x}$$

**Q. No. 8. (a)** The Trapezoidal rule applied to  $\int_0^2 f(x) dx$  gives the value 4, and the Simpson’s rule gives value 2, what is the value of  $f(1)$ ? **(10)**

**(b)** Find the first two derivatives at  $x=1.1$  and  $x =1$  from the following data table. **(10)**

$x$	1	1.2	1.4	1.6	1.8	2.0
$f(x)$	0.000	0.1280	0.5440	1.2960	2.4320	4.000

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UNDER THE FEDERAL GOVERNMENT

Roll Number

ARABIC

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

Part - II

- (20) سوال نمبر 2 : اكتب في تاريخ فن المسرحية العربية بذكر مبسوط في أعلامه بالشام؟
- (20) - سوال نمبر 3 : عرف الأسلوب العلمي البلاغي وانكر أنواعه بالأمثلة شعراً و نثراً؟
- (20) سوال نمبر 4 : ما هي الصور الأولى للقصيد في الشعر العربي القديم؟ و ابحث عن بناءها و اجزاءها؟
- (20) سوال نمبر 5 : اكتب ترجمة الناقد الحديث "طه حسين" وناقش عن آرائه النقدية في مجال الأدب العربي القديم؟
- (20) سوال نمبر 6 : اكتب الحروف الجارة و اشرح استخدامها بالأمثلة مع التطبيق؟
- (20) سوال نمبر 7 : اشرح الأبيات التالية مع نبذة وجيزة حول ترجمة صاحبها و خصائص شعره:

ومن يجعل المعروف في غير أهله      يكن حمده نماً عليه ويندم  
ومن يعص أطراف الزجاج فإنه      يطبع العوالي ركبت كل لهزم  
ومن لا يند عن حوضه بسلاحه      يهدم ومن لا يظلم الناس يظلم  
ومن يغترب يحسب عدواً صديقه      ومن لا يكرم نفسه لا يكرم

- (20) سوال نمبر 8 : اكتب شذرة على الموضوعات التالية:

(أ) المطابع العربية      (ب) رفاة بك الطهطاوي  
(ج) وصف الخمريات      (د) المقامات

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Roll Number

**BOTANY**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART – II**

- Q. No. 2.** Discuss evolution of vascular bundles in tracheophytes. (20)
- Q. No. 3.** Describe process of fertilization for an angiospermic plant with significance of double fertilization. (20)
- Q. No. 4.** Write a comprehensive account of Plant Growth Hormones. (20)
- Q. No. 5.** Give an account of structure of epidermis and describe various functions of its different cell types. (20)
- Q. No. 6.** Write a comprehensive account of light and dark reactions in plants. (20)
- Q. No. 7.** Describe various structural modification of roots, stems and leaves tissues in xerophytic plants. (20)
- Q. No. 8.** Write short notes on any FOUR of the followings:- (5 each) (20)
- (a) Theory of Natural Selection
  - (b) Economic importance of Rust and Smut
  - (c) Causes and significance of Polyploidy
  - (d) Types of stele
  - (e) Evolution of sporophyte in Bryophytes

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**FEDERAL PUBLIC SERVICE COMMISSION**  
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Roll Number

**BRITISH HISTORY**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART-II**

**SECTION-I**

- Q. No. 2.** What was so glorious about the Glorious Revolution? Discuss its significance in the British History. (20)
- Q. No. 3.** What was the political and constitutional significance of the Hanoverian succession in England? (20)
- Q. No. 4.** Explain the factors that led to the Industrial Revolution and discuss how did it affect the social, political, economic and cultural life of the English people? (20)
- Q. No. 5.** The Reform Act of 1832 made possible the series of political and administrative reforms that laid the foundation of modern Britain. Discuss. (20)

**SECTION-II**

- Q. No. 6.** How successfully did the Labour government of 1945-51 tackle the economic and social problems of Post-World War II in Britain? (20)
- Q. No. 7.** What were the motives behind the Britain's move to decolonisation after 1945? Also explain why and how did the British leave India in 1947? (20)
- Q. No. 8.** Explain why John Major and the Conservatives won the general election of 1992 but lost the election of 1997? (20)

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**Roll Number**

**BRITISH HISTORY**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART-II**

**SECTION-I**

- Q. No. 2.** What was so glorious about the Glorious Revolution? Discuss its significance in the British History. (20)
- Q. No. 3.** What was the political and constitutional significance of the Hanoverian succession in England? (20)
- Q. No. 4.** Explain the factors that led to the Industrial Revolution and discuss how did it affect the social, political, economic and cultural life of the English people? (20)
- Q. No. 5.** The Reform Act of 1832 made possible the series of political and administrative reforms that laid the foundation of modern Britain. Discuss. (20)

**SECTION-II**

- Q. No. 6.** How successfully did the Labour government of 1945-51 tackle the economic and social problems of Post-World War II in Britain? (20)
- Q. No. 7.** What were the motives behind the Britain's move to decolonisation after 1945? Also explain why and how did the British leave India in 1947? (20)
- Q. No. 8.** Explain why John Major and the Conservatives won the general election of 1992 but lost the election of 1997? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**BUSINESS ADMINISTRATION**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		
<b>(vii) Use of calculator is allowed.</b>		

**PART – II**

- Q. No. 2.** What is the significance of strategic management for an organization? Explain the various steps of strategic management process. (20)
- Q. No. 3.** What are the internal sources of job candidates? How can managers forecast the supply of internal candidate? (20)
- Q. No. 4.** Discuss the advantages and disadvantages of different methods a manager can adopt for effective performance appraisal of employees. (20)
- Q. No. 5.** Discuss the three common capital budgeting decision techniques with examples and formulas. (20)
- Q. No. 6.** An international manufacturing concern has provided the income statement data. Give formulas to calculate the following ratios. Also explain how to interpret them? (20)
- (i) Current ratio
  - (ii) Quick ratio
  - (iii) Average collection period
  - (iv) Time interest earned
  - (v) Inventory turnover
- Q. No. 7.** The impact of different levels of decision phases of supply chain depends on timeframe. Explain the decision phases in supply chains with examples. (20)
- Q. No. 8.** Compare the advantages of mass marketing to those of market segmentation for a company. Discuss with relevant business examples. (20)

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**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**CHEMISTRY, PAPER-I**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> <b>(vii) Use of calculator is allowed.</b>		

**PART-II**

- Q. 2.** (a) Describe the assumption of Bohr's atomic model. Based on Bohr's calculation, establish the energy expression of the rotation of electrons in Hydrogen like atomic species. (8)
- (b) Derive de-Broglie's equation for the dual nature of matter. Apply this equation for microscopic and macroscopic properties of substances. (6)
- (c) What are the postulates of Quantum Mechanics? (6) **(20)**
- Q. 3.** (a) What is Third law of thermodynamics? How it is used to determine the entropies of substance. (7)
- (b) Discuss the isothermal expansion of a gas and derive the equation for the work done due to expansion of a gas. (7)
- (c) Explain the law of corresponding states. (6) **(20)**
- Q. 4.** (a) Deduce the rate expression for 2<sup>nd</sup> order reaction where both the concentration terms are same. What is the half-life period for the 2<sup>nd</sup> order reaction? (10)
- (b) What is activation energy? How it can be determined? (5)
- (c) Write a note on Transition state theory of reaction rates. (5) **(20)**
- Q. 5.** (a) Develop a relation among phase, component and degree of Freedom. Draw a complete diagram for water system. (10)
- (b) What is catalysis? Differentiate between positive and negative catalysis. (6)
- (c) What is stoichiometry? Explain it with help of examples. (4) **(20)**
- Q. 6.** (a) State and explain Lowry-Bronsted theory and Lewis theory of acids and bases. In what way Lewis theory differs from Bronsted theory. (8)
- (b) Explain with the help of examples why pH of a buffer solution does not change significantly on small addition of acids and bases. (6)
- (c) What are indicators? How a suitable indicator can be chosen? Discuss. (6) **(20)**
- Q. 7.** (a) Give an account of phenomena of isomerism in co-ordination compound with suitable example. (8)
- (b) Describe the extraction of thorium from mozite sand. (6)
- (c) Compare the properties of lanthanides and actinides? (6) **(20)**
- Q. 8.** (a) Explain Kohlrausch's Law? Give its applications. (7)
- (b) What is meant by transport number of ions? Give different methods for determination of transport number. (7)
- (c) What is specific conductance? How it can be determined by using Wheatstone bridge? (6) **(20)**

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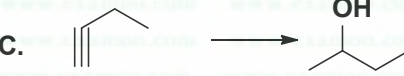
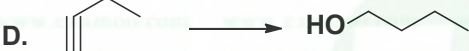

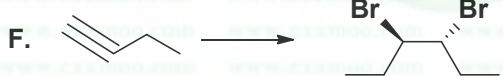
Roll Number

**CHEMISTRY, PAPER-II**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>

**NOTE:** (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
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(vi) Extra attempt of any question or any part of the question will not be considered.  
(vii) Use of Calculator is allowed.

**PART – II**

- Q. No. 2.** (a) Elaborate the optical isomerism with appropriate examples. (10)  
(b) Express the resolution and its applications. (5)  
(c) Explain the geometric isomerism in cyclic compounds. (5) (20)
- Q. No. 3.** (a) Prepare a plausible synthesis for each of the following transformation: (12)
- A. 
- B. 
- C. 
- D. 
- E. 
- F. 
- (b) Explain the type of hybridization in 1,3-Butadiene. (4)  
(c) Mention any three methods for preparation of Alkynes. (4) (20)
- Q. No. 4.** (a) Describe the necessary conditions and reagents required to convert benzene into the following: (8)  
Nitrobenzene, Ethyl benzene, cyclohexane, Benz-aldehyde, Benzoic acid, and Chlorobenzene.  
(b) Draw all possible structures of aromatic compounds with the formula  $C_9H_{12}$  containing the benzene ring. (6)  
(c) How do you account for the fact that phenol is more easily attacked by electrophiles than nitrobenzene? (6) (20)
- Q. No. 5.** (a) Outline stepwise reaction mechanism for the following reactions: (8)  
(i)  $SN_1$  reaction between bromoethane and NaOH.  
(ii)  $SN_2$  reaction between 2-chloro-2-methyl propane and NaCN.  
(b) Discuss the various factors, nature of substrate, solvent, catalyst, and the leaving group in  $SN_2$  reaction. (8)  
(c) How does methyl iodide react with the following reagents? (4) (20)  
Acetic acid, Mg, Alcoholic KOH and Na.

## CHEMISTRY, PAPER-B

- Q. No. 6.** (a) Describe two methods for preparation of salicylic acid? How would you convert it into (a) Phenol, (b) Salol, (c) Benzoic acid and (d) Aspirin? Give its at least two medicinal uses. (10)
- (b) How will you obtain the following from suitable mono carboxylic acid? (6)  
(a) Iso-butane (b) Butanone (c) Benzamide (d) Propionaldehyde.
- (c) Describe the mechanism of esterification of an acid. (4) (20)
- Q. No. 7.** (a) An unknown substance shows a molecular ion peak at  $m/z=170$  with a relative intensity of 100. The  $M+1$  peak has relative intensity of 13.2 and the  $M+2$  peak has an intensity of 1.00. What is the molecular formula for this substance? (10)
- (b) Mention the various tools to interpret the mass spectra. (5)
- (c) What is the nitrogen rule? Explain it with suitable examples. (5) (20)
- Q. No. 8.** (a) Elucidate the various steps involved in Glycolysis. (12)
- (b) Express the role of ATP in Glycolysis. (4)
- (c) Describe the pathway that leads to the formation of Lactic acid. (4) (20)

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UNDER THE FEDERAL GOVERNMENT

Roll Number

**COMPARATIVE STUDY OF MAJOR RELIGIONS**  
**(FOR NON MUSLIMS)**

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80

- NOTE:** (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

**PART-II**

- Q. No. 2. Human kind has always been blessed by the spiritual progress and growth of different stages, Bhudhi Satwa (Dharma kaya, Sambhoga kaya, Nirvana kaya) .Discuss. (20)
- Q. No. 3. Introduce the Sacred books of Hinduism and discuss their social aspects and teachings to human kind. (20)
- Q. No. 4. Shed light on the evolutionary and revolutionary aspect of religion while discussing types of religion. Also highlight the importance of religion on human life? (20)
- Q. No. 5. Elaborate the five fundamental faiths of Christianity in detail? (20)
- Q. No. 6. Describe the Ten Commandments and draw a comparison between the moral values enunciated in them and those in Islamic teachings of morals. (20)
- Q. No. 7. The Protocols of the elders of Zion's is a sacred and historical book of Judaism. Discuss? (20)
- Q. No. 8. Explain in detail any ONE of the following: (20)
- 1- The concept of Hindu Mysticism and Salvation in the light of Upanishads.
  - 2- Bhagwat Geeta and unity of God.

**URDU VERSION**

- (20) سوال نمبر 2: انسانیت کی خدمت اور روحانی ترقی کے مختلف مدارج، بدھی ستوا (دھرم کایا، سمبوگا کایا، نرمانا کایا) بیان کریں۔
- (20) سوال نمبر 3: ہندومت کی مقدس کتب کا تعارف پیش کر کے انہی مقدس کتب کی روشنی میں معاشرتی تعلیمات کو قلمبند کریں۔
- (20) سوال نمبر 4: مذہب کی اقسام کا تذکرہ کرتے ہوئے ارتقائی اور الہامی تصور کا جائزہ لیں نیز انسانی زندگی پر مذہب کے اثرات قلمبند کیجئے۔
- (20) سوال نمبر 5: عیسائیت میں پانچ متفقہ عقائد (Five Fundamentals Faiths) کو تفصیلاً بیان کریں۔
- (20) سوال نمبر 6: احکام عشرہ (Ten Commandment) بیان کریں اور تقابلی جائزہ لیں کہ کس قدر یہ تعلیمات اسلامی اخلاقی تعلیمات کے ساتھ ہم آہنگ ہیں۔
- (20) سوال نمبر 7: یہودی کتب مقدسہ میں پروٹوکولز (The Protocols of the elders of Zion's) پر روشنی ڈالیں۔
- (20) سوال نمبر 8: درج ذیل میں سے کسی ایک پر تفصیلی نوٹ لکھیں:

1- اپنشد اور ہندو تصوف و نروان  
2- بھگوت گیتا اور وحدت الوجود

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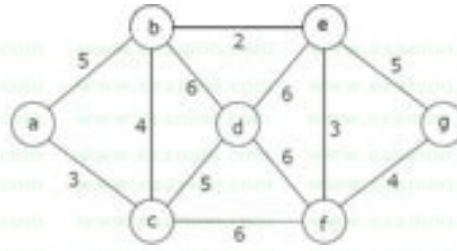
COMPUTER SCIENCE, PAPER-I

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

PART – II  
SECTION – I

- Q. 2.** (a) Give a detailed note on a revised BSD 3-clause license. Also name 5 softwares using this license. (10)
- (b) How do artificial intelligence may facilitate us in improving cyber security? (5)
- (c) What are the main parts and phases of a computer virus program? (5) (20)
- Q. 3.** (a) See the following C++ program to declare whether an input number is a prime number or not. Identify the logical errors in the given program (if any). Give your correct statement(s) exactly at the same line number. (10)
- ```
1. n, i;
2. bool is Prime = false;
3. cout<< "Enter a positive integer: ";
4. cin>> n;
5. for(i = 1; i< n / 2; ++i)
6. {
7. if(n / i == 0)
8. {
9. is Prime = false;
10. break;
11. }
12. }
13. if (is Prime)
14. cout<< "This is a prime number";
15. else
16. cout<< "This is not a prime number";
```
- (b) What is the difference between call by value and call by reference? (5)
- (c) What is the role of preprocessor directives? Give three examples in C++. (5) (20)
- Q. 4.** (a) How do the OOP paradigm can be associated with the real-world problems? Explain. (10)
- (b) Discuss critical reasons given by the professionals for not supporting the OOP paradigm. (10) (20)
- Q. 5.** (a) Discuss the security issues associated with the cloud computing. (10)
- (b) What is bit twiddling? Give brief description. (5)
- (c) An image is a representation of some information. Discuss how does a computer represents an image internally? Name different algorithms used to extract features from images. (5) (20)

- Q. 6. (a)** Discuss the limitations of genetic algorithms. (10)
- (b)** What is AVL tree? Under what condition, a binary tree becomes AVL tree? (5)
- (c)** Consider the following graph. Find out the sequence of edges added to the minimum spanning tree using Kruskal's algorithm. (5) (20)



- Q. 7. (a)** Discuss the architecture of aspect-oriented system. (10)
  - (b)** Briefly discuss the motivation for aspect-oriented programming. (5)
  - (c)** What is the significance of quantification and obliviousness? (5) (20)
- Q. 8. (a)** Write down the major steps involved in code generation. (10)
  - (b)** How would you optimize a loop? Describe the techniques briefly. (5)
  - (c)** Differentiate machine-dependent optimization and machine-independent optimization. (5) (20)

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Roll Number

**COMPUTER SCIENCE, PAPER-II**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART – II**  
**SECTION-A**

- Q. No. 2.** (a) Compare the main features of CISC and RISC architectures. Which type of architecture is suitable for pipelining? (8)
- (b) Demonstrate use of superscalar approach to achieve instruction level parallelism using a suitable example. (6)
- (c) List all basic functions of buses in the context of computer architecture. (6) (20)
- Q. No. 3.** (a) Show field by field comparison for IPv4 and IPv6 packets. (8)
- (b) Explain the following routing techniques using suitable examples. (6)
- (i) Link State Routing
- (ii) Distance Vector Routing
- (c) Show step by step procedure of error detection using cyclic redundancy check method for a 7 bit code block "1001001". Assume appropriate generator polynomial. (6) (20)
- Q. No. 4.** (a) Demonstrate step by step procedure for process swapping between main memory and secondary memory. (8)
- (b) Show flow chart of a process scheduling mechanism using various queues. (6)
- (c) Explain the difference between Sequential Access and Indexed Sequential Access in the context of file access using a suitable example (6) (20)
- Q. No. 5.** (a) Demonstrate various types of multiplexing techniques in the context of computer networks using suitable examples. (8)
- (b) Show step by step procedure to find MAC address of a node in a network using Address Resolution Protocol. (6)
- (c) For transmission of voice signal in real time over the network, select a suitable switching technique. Justify your answer using an example. (6) (20)

**SECTION-B**

- Q. No. 6.** (a) Analyze the following noise models in the context of digital image processing. (8)
- (i) Gaussian Noise Model
- (ii) Uniform Noise Model
- (b) Compare RGB and HSI color models in the context of digital image processing. (6)
- (c) Describe step by step process of application of compression based technique for image segmentation. (6) (20)

**COMPUTER SCIENCE, PAPER-II**

- Q. No. 7.** (a) A Medium advertising company is reviewing its IT requirements and is considering using a Cloud solution for web applications as opposed to investing in existing infrastructure. Is this an appropriate strategy? Justify your answer using an example. (8)
- (b) Describe briefly the role of validation in requirement engineering process. (6) (20)
- (c) Explain the difference between functional and non-functional requirement in the context of web engineering using a suitable example. (6)
- Q. No. 8.** (a) Demonstrate the use of ER Model in database designing process using an example. (8)
- (b) Describe an appropriate security scheme for a database maintained by a bank. Justify your answer using an example. (6)
- (c) Explain the difference between top-down and bottom-up approaches in the context of distributed database design using a suitable example. (6) (20)

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Roll Number

**CONSTITUTIONAL LAW**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
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**PART-II**

- Q. No. 2.** Under the Constitution of Pakistan 1973, through which stages a “Bill” passes by for becoming an “Act” of the Parliament and further to become a “Law”? Briefly explain the process and procedure of law-making in the Senate. (20)
- Q. No. 3.** What does the phrase, “Judicial Review” means under the American Constitution? Explain. (20)
- Q. No. 4.** Do you agree with the view that in the U.K. there are no constitutional restrictions on the powers of the Parliament but the powers of the Congress in the USA are checked both by the executive as well as judiciary? (20)
- Q. No. 5.** Can the British Supreme Court strike down the laws which are repugnant to the provisions of the British Constitution? If so under which provision of the British Constitution? (20)
- Q. No. 6.** What is the difference between the procedures of constitutional amendment in the Russian as well as American Constitutions? (20)
- Q. No. 7.** What are the powers of the Russian President in the light of Article-83 of the Russian Constitution? (20)
- Q. No. 8.** Which of the three Constitutions of Pakistan i.e. 1956, 1962 and 1973 is the best and more comprehensive. Give an analytical comparison. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**CRIMINOLOGY**

|                                         |                      |                           |
|-----------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>        | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b> | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.**
- (ii) Attempt ONLY FOUR questions from PART-II by selecting ONE question from EACH SECTION. ALL questions carry EQUAL marks.**
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**
- (iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**
- (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**
- (vi) Extra attempt of any question or any part of the question will not be considered.**

**PART – II**  
**SECTION-I**

**Q. No. 2.** Travis Hirschi argued that crime results when an individual's bond to society is weak or broken. Discuss in detail what this theory of social bonding explains about crime. (20)

**Q. No. 3.** Discuss the fundamental postulates of Edwin Sutherland's 'Differential Association theory' with examples. (20)

**SECTION-II**

**Q. No. 4.** Discuss some of the functions and responsibilities of Juvenile Justice System. Do you believe that Juvenile Justice has played its role in prevention of juvenile crimes in Pakistan? (20)

**Q. No. 5.** How far recidivism has been limited by the institution of prison? Explain some of the modern strategies used in prison for the restoration and reintegration of criminals. (20)

**SECTION-III**

**Q. No. 6.** Define and differentiate interviewing and interrogation techniques. How far human rights of criminals are being violated during the interrogation process? (20)

**Q. No. 7.** How the forensic science is a helpful tool in the modern day for determining and detection of violent crimes? (20)

**SECTION-IV**

**Q. No. 8.** Cybercrime is increasing at national and international levels. Suggest some measures to control this kind of crime. (20)

**Q. No. 9.** How do violent crimes affect social fabric of Pakistani society? Discuss some of the modern policing strategies for prevention and control of the violent crimes in Pakistan. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ECONOMICS, PAPER-I**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b> |                                        |                                                        |

**PART- II**

- Q. No. 2.** Use the IS-LM model to discuss the Neutral effect of monetary expansion in the case of open economy. Distinguish between Keynesian and Classical Views on neutrality of money. **(20)**
- Q. No. 3.** What do you understand by Monetary Transmission Mechanism (MTM)? Evaluate and explain at least three different channels of MTM. **(20)**
- Q. No. 4.** What do the slopes of an isoquant line and iso-cost line measure? Describe theoretically and graphically the conditions that are satisfied when a firm has chosen a least cost technique for producing a given output. **(20)**
- Q. No. 5.** What are tariff and nontariff barriers to international trade? Why do countries sometimes restrict international trade? **(20)**
- Q. No. 6.** Extricate among fixed, flexible and managed floating exchange rate regimes. **(20)**
- Q. No. 7.** Describe the underdevelopment trap. Highlight the main ways in which poor countries attempt to overcome their poverty. **(20)**
- Q. No. 8.** Distinguish between any FOUR. **(5 each) (20)**
- a. Comparative advantage and Absolute advantage.
  - b. Consumer surplus and producer surplus
  - c. Progressive and regressive taxes
  - d. Economic growth and economic development
  - e. Real GNP and nominal GNP
  - f. Consumer price index and GDP deflator

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ECONOMICS, PAPER-II**

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** Describe the salient features of Nurkse, Ropan and Hirschman theories. Comment on the relevancy of each with reference to Pakistan? (20)
- Q. No. 3.** Critically examine the surplus labor model presented by Arthur Lewis. Can this model be used to initiate industrial development in Pakistan? (20)
- Q. No. 4.** Differentiate between the concepts of poverty and income inequality. How can public policy help in alleviating poverty and reducing inequality in a developing country like Pakistan? (20)
- Q. No. 5.** Explain various types of inflation. To what extent should it be controlled? How can fiscal and monetary policy measures help control inflation in Pakistan? (20)
- Q. No. 6.** Analyze the role of international trade in the economic development of Pakistan. How might WTO affect the terms of trade in an otherwise free economy? (20)
- Q. No. 7.** Examine the role of Agriculture Sector in the economic development of Pakistan. Should the country continue investing in it or there exist better options as alternate plans? (20)
- Q. No. 8.** What are the reasons for the adverse balance of trade in Pakistan? Suggest the possible measures to improve the balance of trade scenario of Pakistan. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

**Roll Number**

**ENVIRONMENTAL SCIENCE**

|                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>                              |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                       |                      |                           |

**PART – II**

- Q. No. 2.** How is hazardous waste classified? What are the various options for handling hazardous waste? (20)
- Q. No. 3.** What are the various mechanisms involved in atmospheric SO<sub>2</sub> removal? (20)
- Q. No. 4.** Eutrophication is a phenomena caused by the abnormal growth of algae in a water body. What are the reasons of algal bloom and how can this phenomenon be controlled? (20)
- Q. No. 5.** Describe and differentiate between stated and revealed preferences methods used for valuing the environmental resources. (20)
- Q. No. 6.** What is the importance of public participation in an Environmental Impact Assessment (EIA) process? What is the difference between EIA and Strategic Environmental Assessment (SEA)? (20)
- Q. No. 7.** Pakistan is located in a semi arid region of the world, hence is more prone to climate change effects. Explain what adaptation measures will be feasible in the situations of worst climate change in regions like Pakistan? (20)
- Q. No. 8.** What are the five major air pollutants coming out of fire burning process? Smog formation occurs due to certain air pollutants. What means and ways can be used for its control? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**EUROPEAN HISTORY**

|                                         |                      |                           |
|-----------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>        | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b> | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |

- NOTE:** (i) **Part-II** is to be attempted on the separate **Answer Book**.  
(ii) Attempt **ONLY FOUR** questions from **PART-II**. **ALL** questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

**PART – II**

- Q. No. 2.** Why did the post French Revolution phase has been marked by the rational and effective governments in Europe? (20)
- Q. No. 3.** How did the peace settlement of 1814-15 restored effective balance of power and paved the way to a European peace. (20)
- Q. No. 4.** What social movements led to the political consolidation of various states of the Italian peninsula that unified a single nation of Italy? (20)
- Q. No. 5.** Write an account of Bismarck's diplomacy for Germany that made her a leading European State. (20)
- Q. No. 6.** Why did Europe become a continent of dictatorships after the First World War? (20)
- Q. No. 7.** What was the impact of German reunification on Eastern Europe and the USSR? (20)
- Q. No. 8.** Why did the concept of supranational European institutions emerged in the aftermath of WW II? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**GENDER STUDIES**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** How do you differentiate the discipline of Gender Studies from that of Women Studies? Historically trace the need for the establishment of Gender Studies as a distinct discipline and its scope and significance with especial reference to Pakistan. **(20)**
- Q. No. 3.** Outline and explain the three major waves of feminist movements in the West. Discuss the influence of these waves on feminist movements in Pakistan. **(20)**
- Q. No. 4.** Explain the relevance of Modernization Theory and Dependency Theory to gender equality. Critically analyze the subordination of women in modern societies in the light of these two theories. **(20)**
- Q. No. 5.** The process of globalization has connected nations worldwide and has made the world a global village, yet it has also increased inequalities across nations. Discuss the gendered inequalities created and promoted by the process of globalization in contemporary societies worldwide. **(20)**
- Q. No. 6.** Women's participation in labor force has increased recently yet women continue to perform their reproductive roles. Discuss the challenges encountered by women as a result of their paid employment worldwide with especial reference to Pakistan. **(20)**
- Q. No. 7.** Explain the structural and direct forms of violence against women in the Pakistani society by highlighting the case study of Mukhtaran Mai. **(20)**
- Q. No. 8.** Write short notes on any **TWO** of the following. **(10 each) (20)**
- a. Suffragist movement
  - b. Postmodern Feminism
  - c. Structural Functionalism

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**GEOGRAPHY**

|                                                                                                                                     |                      |                           |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>                 |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>                     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                                       |                      |                           |
| <b>(vii) Maps and Diagrams to be drawn wherever needed.</b>                                                                         |                      |                           |

**PART – II**  
**SECTION – I**

- Q. No. 2.** Describe the Conventional ages of the Earth's crust along with possible mechanism of crustal growth. (20)
- Q. No. 3.** Discuss and trace the breeding ground of the Monsoon along with weather associated with summer Monsoon. (20)
- Q. No. 4.** Through a diagram locate Torrid Zone and explain its prevailing weather phenomenon. (20)
- Q. No. 5.** Bring out Kyoto Protocol – Targets for the first commitment period. (20)

**SECTION – II**

- Q. No. 6.** Compare and contrast geographic domains and its impact on culture prevailing in the Andes Mountain and Nile Valley. (20)
- Q. No. 7.** Cite out at least three cosmopolitan cities in world mentioning causes of their growth. (20)
- Q. No. 8.** Write short notes on any TWO of the following: (10 each) (20)
- (a) Normal cycle of erosion
  - (b) Mid Atlantic Ridge
  - (c) Sericulture in Pakistan

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**GEOLOGY**

|                                                                                                                                     |                      |                           |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>                 |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>                     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                                       |                      |                           |

**PART – II**  
**SECTION – I**

- Q. No. 2.** What characteristics a sedimentary strata should contain to be designated as a “Formation”? How the formation is divided into sub-units? Describe the characters of Salt Range Formation. (20)
- Q. No. 3.** Elaborate the Plagioclase Series of Feldspar group of rock forming minerals. Describe the physical and optical characteristics of the series. (20)
- Q. No. 4.** What is Pull-apart basin? Describe the characteristics of transform movement between two continental blocks. Where you find similar features in Pakistan? (20)
- Q. No. 5.** What are Pegmatites? Discuss the texture and mineralogical composition of pegmatites. What precious minerals are associated with acidic pegmatites? (20)

**SECTION-II**

- Q. No. 6.** What methods of geophysical exploration are used for metallic ore deposits? What instruments are used for acquisition and interpretation of data? (20)
- Q. No. 7.** Differentiate between volcanic and fissure eruptions. Describe types of materials exhaled by volcanoes. How these materials are hazardous to men and environment? (20)
- Q. No. 8.** Write short notes on any TWO of the following: (10 each) (20)
- (a) Source sediments of petroleum.
  - (b) Site investigation for highway construction.
  - (c) Site investigation for tunnel construction.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**GOVERNANCE & PUBLIC POLICIES**

**Roll Number**

|                                                                                                              |                      |                           |
|--------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                             | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                      | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                     |                      |                           |
| (ii) Attempt <b>ONLY FOUR</b> questions from <b>PART-II</b> . <b>ALL</b> questions carry <b>EQUAL</b> marks. |                      |                           |
| (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places. |                      |                           |
| (iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.                               |                      |                           |
| (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.     |                      |                           |
| (vi) Extra attempt of any question or any part of the question will not be considered.                       |                      |                           |

**PART-II**

- Q. No. 2.** Identify the main differences between ‘public management’ and ‘private management’; and between ‘public governance’ and ‘corporate governance’. (20)
- Q. No. 3.** In many areas, governments increasingly have been moving toward partnership working across public and private sector. What are the main governance implications of this trend for the delivery of public services? (20)
- Q. No. 4.** Discuss the ways in which the legislative and judicial branches interact with the bureaucracy. Explain why these interventions are necessary and useful? (20)
- Q. No. 5.** How can bureaucrats and bureaucracies be held accountable? By whom and by what means can they be held accountable? Describe the steps and the measures that can be taken to increase bureaucratic accountability. How do the judicial, the executive, and the legislative branches of government hold bureaucrats and bureaucracies accountable? (20)
- Q. No. 6.** Choose a policy issue and examine it in the light of policy cycle. Be sure to discuss the relevance of each of the following in your answer: agenda setting, policy formulation, policy adoption, policy implementation, policy evaluation, policy change and policy termination. Also, discuss the most important considerations at each step. (20)
- Q. No. 7.** What are the advantages and disadvantages of a federal system of governments? (20)
- Q. No. 8.** The traditional theory of policy making is that legislators make policy and public managers carry it out. However, most scholars argue that this impleolitics/administration dichotomy does not accurately reflect the policy-making process in most contemporary public administration environments. (20)
- i.** How do public managers engage in policy making?
  - ii.** How do legislators engage in policy implementation?
  - iii.** Is the politics/administration dichotomy still valid today? Why or why not.
  - iv.** Provide one detailed example in an area with which you are familiar.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**HISTORY OF USA**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** What were the economic challenges President Clinton faced in post-Cold War era? (20)  
How did he deal with these challenges?
- Q. No. 3.** What were the factors which led to the formation of New England Confederation of Massachusetts Bay, Plymouth, Connecticut and New Haven Colonies, in 1643? (20)
- Q. No. 4.** Critically evaluate the presidency of Franklin D. Roosevelt with reference to his accomplishment and failure. (20)
- Q. No. 5.** The westward expansion was a story of annexations, concessions and purchases, since the declaration of Independence. Discuss. (20)
- Q. No. 6.** American civil war (1860-1865) was an outcome of 'clash of economic interests as well as of social ideals'. Elaborate with arguments. (20)
- Q. No. 7.** What are the features of recent wave of Nationalism in American Foreign Policy under Trump Administration? (20)
- Q. No. 8.** Discuss the philosophy of 'Non-Violence' with reference to Civil Rights' Movement led by Martin Luther King Jr. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**HISTORY OF PAKISTAN & INDIA**

**Roll Number**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** 'Internal consolidation rather than territorial expansion was the keynote of Bulban's policy'. Elucidate. (20)
- Q. No. 3.** 'Akbar fully realized the absence of national spirit in the Mughal Empire and tried to build one, but history of his dynasty records that he failed in the task'. In this context discuss Akbar's policy towards non-Muslims. (20)
- Q. No. 4.** 'By his political reforms and policy of religious toleration Sher Shah laid the foundation of an enlightened government'. Discuss. (20)
- Q. No. 5.** How and why the concept of Basic Democracies was evolved in Pakistan and with what results? (20)
- Q. No. 6.** Elaborate legal frame work order of 1970 and its far reaching impact on the politics of Pakistan. (20)
- Q. No. 7.** Write notes on the following: (10 each) (20)
- i. Movement for the Restoration of Democracy (MRD)
  - ii. Hussain Shaheed Suharwardy and his Ministry (1956-57)
- Q. No. 8.** Give brief but composed answers of the following. (5 each) (20)
- a. What do you know about Democratic Action Committee?
  - b. What was Operation Fair play?
  - c. Describe the main reforms of Prime Minister Moeen Qureshi.
  - d. Incident of Ojhri Camp.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**INTERNATIONAL LAW**

|                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>                              |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                       |                      |                           |

**PART – II**

- Q. No. 2.** Why is it difficult to render accurately a historical account of the origin of International law? What should be the focus of any account as to how and why International law began? (20)
- Q. No. 3.** Distinguish between Monism and Dualism. To what extent both Monism and Dualism explain how States relate to International Law? Critically discuss, 'Incorporation and Transformation are two modalities for adopting international law into the municipal legal system. (20)
- Q. No. 4.** 'A state may exercise its Territorial Jurisdiction once a crime is committed on its territory, regardless of where the crime starts or ends'. Discuss. (20)
- Q. No. 5.** What is the general principle governing imputability of conduct of insurrectional groups to a state? To what extent can the unlawful acts of a rebel movement that is successful in controlling parts of a state be imputed to the state? (20)
- Q. No. 6.** 'A state that first physically occupies a territory retains sovereignty over it forever'. To what extent is this statement true of the acquisition of territory in International Law? (20)
- Q. No. 7.** What is International Criminal Law? Describe the composition, basis and jurisdiction of the International Criminal Court (ICC), especially with reference to non-State parties. List all the conditions for the exercise of jurisdiction by the ICC? (20)
- Q. No. 8.** Article 2(4) of the UN charter is an absolute prohibition of the use or threat of force. Analyse the validity of this statement in light of writers' and states' approaches to interpreting the article. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**INTERNATIONAL RELATIONS, PAPER-I**

Roll Number

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** Discuss the significant features of “Treaty of Westphalia” and the development of modern Nation-State System. (20)
- Q. No. 3.** Discuss the concept of “Idealism”. Explain its core perceptions and define its agenda of peace for the stability of world. (20)
- Q. No. 4.** Discuss the concept of “Security” in the post-Cold War era. Explain its changing dimensions and define its strength and weaknesses for the nation states. (20)
- Q. No. 5.** Discuss the concept of “Hybird and Social Media” as a means of modern psychology warfare. Explain its characteristics and suggest measures to promote national security. (20)
- Q. No. 6.** Critically discuss the idea of “Dependence and Interdependence”. Explain its advantages and disadvantages for the poor countries. (20)
- Q. No. 7.** Discuss the development of “Nuclear Non-Proliferation Treaty” (NPT), define its main features and explain its status in present world. (20)
- Q. No. 8.** Pakistan is going to International Monetary Fund (IMF) for its bailout package to resolve its financial problems through prudent management. Discuss Pakistan’s external debt problems and domestic liabilities to stabilize country’s economic uncertainty. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**INTERNATIONALS RELATIONS, PAPER-II**

**Roll Number**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** What were the foundational principles of Nazism using which Hitler raised to power in Germany? (20)
- Q. No. 3.** Cold war is considered as one of the longest peace in great powers' history. What deterministic factors ensured relative peace in great powers' relations during the Cold War? (20)
- Q. No. 4.** World orders are established by great powers in order to serve their interests. What are the foundations of existing world order(s) and how do they serve the interests of great powers? (20)
- Q. No. 5.** SAARC is facing an existential crisis. How do functionalists explain the failure of SAARC as a regional organisation? (20)
- Q. No. 6.** How do rational theories of foreign policy explain state decision making? Discuss the tenets of the theory in light of the decision made by Pakistan in response to Saudi request of sending troops during Yemen crisis in 2015. (20)
- Q. No. 7.** What benefits India might have gained by joining Missile Technology Control Regime (MTCR)? Highlight possible impacts it may have upon strategic stability in South Asia. (20)
- Q. No. 8.** What are the major policy prescriptions of structural adjustment and stabilisation of the World Bank and IMF vis-à-vis Pakistan? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**ISLAMIC HISTORY & CULTURE**

**Roll Number**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH PART. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**  
**SECTION-I**

- Q. No. 2.** The Charter of Madina played a vital role towards the formation of Islamic State in Madina. Discuss. **(20)**
- Q. No. 3.** Bristly furnish the services of Caliph Abu Baker (R.A.) in the establishment of Khilafat Institutions. **(20)**
- Q. No. 4.** State the salient features of Umayyad's period. **(20)**
- Q. No. 5.** Write short notes on any **TWO** of the following: **(10 each) (20)**
- i.** The Contents of the last sermon of Hajj
  - ii.** Development of Arabic Literature
  - iii.** Migration to Ethiopia

**SECTION-II**

- Q. No. 6.** During which period the Sufism was organized & developed. **(20)**
- Q. No. 7.** Enlist the Political, Economic, Educational and Social Aspects of Islamic Modernism. **(20)**
- Q. No. 8.** Write short notes on any **TWO** of the following: **(10 each) (20)**
- i.** The Crusades
  - ii.** Contribution of Culture, Arts & Architecture under Ottoman Dynasty
  - iii.** Abu Jafer Al-Mansoor

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**JOURNALISM & MASS COMMUNICATION**

**TIME ALLOWED: THREE HOURS**

**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-I (MCQS)**

**PART-II**

**MAXIMUM MARKS = 20**

**MAXIMUM MARKS = 80**

**NOTE: (i) Part-II is to be attempted on the separate Answer Book.**

**(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.**

**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**

**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**

**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**

**(vi) Extra attempt of any question or any part of the question will not be considered.**

**PART – II**

- Q. No. 2.** Discuss Marshal McLuhan's theory of media determinism in the light of powerful media effects revisited paradigm. (20)
- Q. No. 3.** What are normative theories of the press? Discuss criticism on these theories and also discuss their implication in Pakistani society. (20)
- Q. No. 4.** How mass media and technology contribute in globalization? Do you think that we are living in a global village? Justify your answer with logical arguments. (20)
- Q. No. 5.** Critically discuss the impact of commercialism on selection and presentation of news reports in perspective of Pakistani mainstream news channels. (20)
- Q. No. 6.** Do you think that PR is a tool of governance? Why is it necessary for a public relations department to serve as early warning system? (20)
- Q. No. 7.** Write a detailed note on development of media regulations from British colonial era to independent Pakistan. (20)
- Q. No. 8.** Write notes on any two of the following: (10 each) (20)
- (a) Spiral of silence
- (b) McBride commission
- (c) Dominant paradigm of development





**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**LAW**

|                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>                              |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                       |                      |                           |

**PART – II**

- Q. No. 2.** If a suit, between the same parties, on the same cause of action is pending in a Competent Court of Jurisdiction. Can a second suit be filed in another Court of Competent Jurisdiction in Pakistan? Argue the statement in the light of relevant provisions of Code of Civil Procedure (CPC) 1908. (20)
- Q. No. 3.** (a) Discuss the scope and nature of international Commercial Arbitration (ICA) in a globalized economy. Highlight the reasons for the growth and development of “ICA”. Enumerate the international legal framework regarding the “ICA” and what are legislative and Administrative measures which have initiated in Pakistan? Comment. (10)
- (b) Enumerate the legal and factual grounds against the recognition and enforcement of Foreign Arbitral Awards in Pakistan. (10) (20)
- Q. No. 4.** What is an Appeal? Explain the grounds upon which an appeal may be instituted and discuss the distinction between the first and second appeal against the decrees and law relating to appeal against orders. (20)
- Q. No. 5.** How a witness may refresh his memory. What are the rights of the opposite party when witness is allowed to refresh his memory? (20)
- Q. No. 6.** Approver is a person who is granted pardon in certain circumstances. Discuss the provisions of Code of Criminal Procedure (Cr.PC) 1898 relating to tender of pardon to accomplice. (20)
- Q. No. 7.** What are the supplement proceedings, which a Court is empowered to take to secure the ends of justice? (20)
- Q. No. 8.** (a) Can the pleadings be amended at any stage of proceeding? Describe the grounds upon which the amendment is allowed under the law. (10)
- (b) Distinguish between the situations where the court has to return or reject the plaintiff. (10) (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**MERCANTILE LAW**

|                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>                              |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                       |                      |                           |

**PART – II**

- Q. No. 2.** Explain the term consideration and state the exceptions to the rule: “No consideration, no contract”? (20)
- Q. No. 3.** What do you understand by the rule “caveat emptor”? Are there any exceptions to this rule? Does this rule apply in Pakistan today? (20)
- Q. No. 4.** What do you mean by implied authority of partner? What are the limitations on authority of partner? (20)
- Q. No. 5.** Why does the State Bank of Pakistan Act, 1956 maintain that only State Bank can lawfully issue bearer notes and bills of exchange payable on demand? What does this tell you about the nature of the paper currency that we use? (20)
- Q. No. 6.** What do you understand by fixed and floating charges with reference to company law? Draw a distinction between the two types. (20)
- Q. No. 7.** What changes have been brought about in the rules of the memorandum of association of a company by the new law of 2017? (20)
- Q. No. 8.** What is the meaning of “services for consideration” in the consumer law and does it include the services of a doctor or a lawyer? (20)

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2019  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

PERSIAN

|                                  |               |                    |
|----------------------------------|---------------|--------------------|
| TIME ALLOWED: THREE HOURS        | PART-I (MCQS) | MAXIMUM MARKS = 20 |
| PART-I(MCQS): MAXIMUM 30 MINUTES | PART-II       | MAXIMUM MARKS = 80 |

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. Answer must be written in respective language except where specified in the question paper. ALL questions carry EQUAL marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

Part – II

Section – I

سوال نمبر 2 : نهضت مشروطه زبان و ادبیات فارسی را با موضوع و اصناف جدید آشنا کرد ، آیا شما با این اتفاق می کنید؟ به طور مفصل بیان کنید.

(20)

سوال نمبر 3 : از عنواین زیر دو عنوان را انتخاب نموده مقاله های مختصری را بزبان فارسی بنویسید . 10 ، 10

(20)

- ا . اهمیت موقوفات  
ب . سبک هندی  
ج . نامیدی در داستانهای جلال آل احمد  
د . تاثیر عشق در شعر حافظ

سوال نمبر 4 : 1 . ضمیر اشاره و اقسام آنرا تعریف کنید و با آوردن مثال توضیحات لازم را ارائه دهید. 10

2 . از کلمات زیر مرکب اضافی و توصیفی را جدا کرده در جدولی بنویسید. 10

(20)

قطره ی خون ، سیب سرخ ، دل حزین ، تخت شاه ، نزدیک من ،  
جوی روان ، آسمان روشن ، نخ پنبه ، کشتزار گندم ، شاگرد

کوشا

سوال نمبر 5 : متن زیر را بزبان فارسی ترجمه کنید.

(20)

A literary experiment of quiet unique character is the novel "Ishq-u-adab, Love and Literature", in which the President of the Literary Society in Hamadan, Mirza Ali Muhammad Khan Azad, made an attempt at a biography of the Poet Firdausi in the form of a novel. It appeared in Tehran in 1353/1934 (Ten years later the same material was used by H.Mirza Salur in his novel Juft-i-Pak)

Section – II

سوال نمبر 6 : از اجزای زیر دو جزو را به زبان فارسی شرح دهید . 10 ، 10

(20)

- 1 - خرد چشم جان است چون بنگری  
نخست آفرینش خرد را شناس  
سپاس تو گوش است و چشم و زبان  
خرد را و جان را که یازد ستود  
تو بی چشم جان آن جهان نسپری  
نگهبان جان است و آن را سپاس  
که زینت رسد نیک و بد بیگمان  
و گرم ستایم که یازد شنود

ب - بیا نظاره کن ای دل که یار می آید  
 فراز مرکب ناز او سوار و در عقیش  
 رسید نازک من ای نظارگی ز نهار  
 چه گردها که بر آورده باشد از دلها

ج - ای آنها که بر ساحل بساط دلگشا دارید،  
 یکنفر در آب می خواند شمارا  
 باز می دارد دهان باچشم از وحشت دریده  
 اب را بلعیده در گود کیود و هر زمن بی تابیش افزون،  
 نان به سفره جامه تان بر تن،  
 موج سنگین را به دست خسته می گوید  
 سایه ها تان را ز راه دور دیده،

سوال نمبر 7 : عبارت زیر را به فارسی ساده توضیح داده لغات خط کشیده را نیز توضیح بدهید یا مفهوم آنرا بنویسید.

(20)

تصوف آن بود که اندر کو ننگری، جز به عین نقص، و این دلیل بقای صفت بود، بلکه چشم فراز کنی از کون، و این دلیل فنای صفت بود. از آنچه نظر از کون باشد، چون کون نمائند، نظر هم نمائند و بعض طرف از کون، بقای بصیرت ربانی بود. یعنی هر که به خود ناپینا شود، به حق بیپنا گردد. از آنچه کون طالب هم طالب بود، و کار وی از وی به وی باشد، وی را از خود بیرون راهی نباشد، پس یکی خود را ببندد، ولیکن ناقص ببندد.

سوال نمبر 8 : از موضوع های زیر دو موضوع را مورد بحث قرار دهید. (20) 10 ، 10

1. "سیاحتنامه ابراهیم بیگ" و تاثیر آن ب. آغاز و ارتقای نثر مصنوع در ایران (نثر فنی)

ج. ویژگی های نثری سعدی شیرازی د. امیر خسرو

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**PHYSICS, PAPER-I**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b><br><b>(vii) Use of Calculator is allowed.</b> |                                        |                                                        |

**PART – II**

- Q. 2.** (a) Explain the Divergence of a Vector field with its physical significance? (10)  
(b) A rural mail carrier leaves the post office and drives 22.0 km in a northerly direction. He then drives in a direction  $60.0^\circ$  south of east for 47.0 km. What is his displacement from the post office? (5)  
(c) Vectors  $\vec{C}$  and  $\vec{D}$  have magnitudes of 3 units and 4 units, respectively. What is the angle between the directions of  $\vec{C}$  and  $\vec{D}$  if  $\vec{C} \cdot \vec{D}$  equals (a) zero, (b) 12 units and (c) -12 units? (5) (20)
- Q. 3.** (a) Distinguish between Linear and Angular momentum. Explain the laws of conservation of Angular momentum. (10)  
(b) Estimate the net force needed to accelerate (i) a 1000kg car at  $\frac{1}{2} g$ ; (ii) a 200g apple at the same rate. (5)  
(c) A vertical force is applied to a block of mass  $m$  that lies on a floor. What happens to the magnitude of the normal force on the block from the floor as magnitude  $F$  is increased from zero if force is (a) downward and (b) upward? (5) (20)
- Q. 4.** (a) Describe the Michelson - Morley Experiment and show how negative results obtained from this experiment were interpreted? (10)  
(b) Derive equation of Lorentz velocity transformations and show that speed of light is independent of the relative motion between the frames of reference. (10) (20)
- Q. 5.** (a) What is surface tension? How surface tension is responsible for rising of liquid in capillaries? (10)  
(b) Water circulates throughout a house in a hot-water heating system. If the water is pumped at a speed of 0.50 m/s through a 4.0cm diameter pipe in the basement under a pressure of 3.0 atm, what will be the flow speed and pressure in a 2.6cm diameter pipe on the second floor 5.0 m above? Assume the pipes do not divide into branches. (5)  
(c) When blood pressure is measured, why must the cuff be held at the level of the heart? (5) (20)
- Q. 6.** (a) What is polarization of waves? How plane polarized light can be obtained by a polarization sheet. (10)  
(b) Two flat mirrors are perpendicular to each other. An incoming beam of light makes an angle of  $15^\circ$  with the first mirror. What angle will the outgoing beam make with the second mirror? (5)  
(c) Since the density of air decreases with an increase in temperature, but the bulk modulus  $B$  is nearly independent of temperature. How would you expect the speed of sound waves in air to vary with temperature? (5) (20)
- Q. 7.** (a) State and explain Equipartition Theorem. (10)  
(b) Define laws of thermodynamics. Explain 3<sup>rd</sup> law of thermodynamics in detail. (10) (20)
- Q. 8.** Write the short notes on any TWO of the following: (10 each) (20)  
(a) Gyrocope (b) Classical Maxwell-Boltzmann Statistics  
(c) Spin and Precession

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2018  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

**PHYSICS, PAPER-II**

TIME ALLOWED: THREE HOURS

PART-I(MCQS): MAXIMUM 30 MINUTES

PART-I (MCQS)

PART-II

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.

(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.

(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

(vi) Extra attempt of any question or any part of the attempted question will not be considered.

(vii) Use of Calculator is allowed.

**PART-II**

- Q. No. 2. (a) Define and explain Gauss' Law. Deduce Coulomb's Law from Gauss' Law. (8)  
(b) Find the Electric Field Intensity due to an infinite sheet of charge. (8)  
(c) The electric field near an infinite sheet of charge is  $3.84 \times 10^5$  N/C. What is the surface charge density on the sheet? ( $\epsilon_0 = 8.85 \times 10^{-12}$  C<sup>2</sup>/N. m<sup>2</sup>) (4)
- Q. No. 3. (a) Derive an expression for capacitance of cylindrical and spherical capacitor. (8)  
(b) Show that the energy consumed in charging a capacitor to charge Q and voltage V can be considered as potential energy stored in the field between the plates. Find expression for energy stored in the field. (8)  
(c) An isolated conducting sphere whose radius R is 6.85 cm has a charge  $q = 1.25$  nC. How much potential energy is stored in the electric field of this charged conductor? ( $\epsilon_0 = 8.85 \times 10^{-12}$  C<sup>2</sup>/N. m<sup>2</sup>) (4)
- Q. No. 4. (a) Derive an expression for time dependent Schrodinger's wave equation. (8)  
(b) Explain de Broglie's hypothesis of matter wave. (8)  
(c) Determine the de Broglie's wavelength of an electron that has been accelerated through a potential difference of 100V. ( $h = 6.63 \times 10^{-34}$  J.s) (4)
- Q. No. 5. (a) What is Transistor? Briefly explain three types of Transistor Circuit Configurations. (8)  
(b) Draw a neat diagram of Transistor Characteristics in Common Emitter Configuration for P-N-P and N-P-N transistor. Also discuss types of characteristic curves for a transistor in Common Emitter Configuration. (8)  
(c) Write a short note on Load line. (4)
- Q. No. 6. (a) What do you understand by nuclear fission? How was it explained theoretically on the basis of liquid drop model? (8)  
(b) Briefly describe important uses of radioisotopes. (8)  
(c) A 5.30 MeV alpha particle happens, by chance, to be headed directly towards the nucleus of an atom of gold, which contains 79 protons. How close does the alpha particle get to the centre of the nucleus before coming momentarily to rest and reversing the relatively massive nucleus? (4)
- Q. No. 7. (a) Explain construction and working of a Geiger Muller Counter. (8)  
(b) Draw the characteristic of Geiger Muller Counter and also explain it. (8)  
(c) What are the properties of Gamma Rays? (4)
- Q. No. 8. Write short notes on any TWO of the following: (10 each) (20)  
(a) Poynting Vector  
(b) Heisenberg's Uncertainty Principle  
(c) Mass Defect and Binding Energy

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**POLITICAL SCIENCE, PAPER-I**

Roll Number

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II, by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

**SECTION-A**

- Q. No. 2.** Examine the view that Hegelian spirit is nothing but evolution of human consciousness to the realization of political maturity for global human co-existence. (20)
- Q. No. 3.** The growing judicial activism in Pakistan is clearly at the expense of parliamentary sovereignty and supremacy. Critically analyze the statement. (20)
- Q. No. 4.** Explain the concept of Nationality and distinguish between Nationality and Citizenship. (20)
- Q. No. 5.** Globalization restrict the autonomy of the state, generates domestic social conflicts, and inequalities. Discuss the interactions between globalization and domestic politics. (20)

**SECTION-B**

- Q. No. 6.** How far 18<sup>th</sup> amendments will transform the existing federal system in Pakistan? (20)
- Q. No. 7.** Fascism generally flourishes in countries with strong nationalism and weak democracies. Discuss the enabling conditions for fascism with reference to Germany and Italy. (20)
- Q. No. 8.** How far is it true to say that the origin of the state lies in force? Discuss critically the Theory of Force regarding the origin of state. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**POLITICAL SCIENCE, PAPER-II**

|                                                                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                                                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting ONE question from SECTION-I and THREE questions from SECTION-II. ALL questions carry EQUAL marks.</b> |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>                                                 |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                                                                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>                                                     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                                                                       |                      |                           |

**PART – II**  
**SECTION – I**

**Q. No. 2.** How the system of Checks and Balances works in the US political system? Explain with examples. (20)

**Q. No. 3.** How the party system in France is different to that in Germany? Discuss in detail. (20)

**SECTION – II**

**Q. No. 4.** Critically analyze the role of military in the Turkish politics. (20)

**Q. No. 5.** Iqbal is credited with creating the idea of Pakistan. Give your arguments. (20)

**Q. No. 6.** What factors contributed to the delay of constitution making process in the early years of Pakistan? Discuss in detail. (20)

**Q. No. 7.** What are the major obstacles to the process of national integration in contemporary Pakistan? Suggest remedies for success of the process. (20)

**Q. No. 8.** Write down the major determinants of the foreign policy of Pakistan. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

**Roll Number**

**PSYCHOLOGY**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** Define emotion. Compare and contrast the theories of emotion. **(20)**
- Q. No. 3.** Describe the attributes of psychological measures. Highlight the ethical and legal issues in psychological assessment. **(20)**
- Q. No. 4.** Describe in detail the structure and functions of central nervous system. **(20)**
- Q. No. 5.** Differentiate between sensation and perception. Describe different determinants of perception. **(20)**
- Q. No. 6.** Define learning. Discuss classical and operant conditioning. **(20)**
- Q. No. 7.** List and describe the various characteristics of mood disorders, including major depression and bipolar disorder. **(20)**
- Q. No. 8.** Write comprehensive notes on any TWO of the following: **(10 each) (20)**
- i. Endocrine system
  - ii. Models of stress
  - iii. Roles and Responsibility of Forensic Psychologist

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**PUBLIC ADMINISTRATION**

|                                                                                                                     |                      |                           |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>                                                                                    | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                             | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>                                            |                      |                           |
| <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b>                              |                      |                           |
| <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> |                      |                           |
| <b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>                               |                      |                           |
| <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>     |                      |                           |
| <b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>                       |                      |                           |

**PART – II**

- Q. No. 2.** Define Public Administration. Discuss the relationship between Politics and Public Administration. (20)
- Q. No. 3.** Is Public interest only a simple summation of private interest? Argue in the light of the theory of John Rawls. (20)
- Q. No. 4.** Explain the similarities and differences between Hersey and Blanchard's Situational theory and House's Path Goal theory. Which one do you think is appropriate for contemporary situation of Pakistan and why? (20)
- Q. No. 5.** Differentiate between Development administration and Administrative development. Critically analyze the role of bureaucracy in Development administration in developing countries including Pakistan. (20)
- Q. No. 6.** Explain dispute settlement process. Do you think that the major methods of redressal of public grievances in Pakistan are adequate? Argue your case. (20)
- Q. No. 7.** Discuss in detail the budgeting process of Pakistan. Do you satisfied with the process? Discuss with practical examples. (20)
- Q. No. 8.** Write short notes on any TWO of the following: (10 each) (20)
- (a) Types of Decentralization
  - (b) Role of Civil Society in good governance
  - (c) Administrative buffering

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# FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR - 2019  
RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number



## PUNJABI

TIME ALLOWED: THREE HOURS

PART-I(MCQs): MAXIMUM 30 MINUTES

PART-I (MCQs)

PART-II

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Attempt FIVE questions from PART-II, Answer must be written in respective language except where specified in the question paper. ALL questions carry EQUAL marks.

(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.

(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

(vi) Extra attempt of any question or any part of the question will not be considered.

## PART-II

نوٹ: ایس حصے وچوں پنج (5) سوالاں دے جواب دیو۔

سوال نمبر 2: منیر نیازی دی شاعری وچ نرگسیت دا احساس اگھڑواں اے۔ بحث کرو۔ (16)

سوال نمبر 3: میاں محمد بخش دے فلسفہ عشق نوں بحث پیٹھ لیاؤ۔ (16)

سوال نمبر 4: سچے سرکار دا پنجابی دے سیرتی ادب وچ تھماں مٹھو۔ (16)

سوال نمبر 5: "بول مٹی دیا پاپا" نوں کھدھر کے سجاد حیدر دی مکالمہ نگاری دا ویروا کرو۔ (16)

سوال نمبر 6: نجم حسین سیدوے مضمون "ڈنڈے دی کہانی" دا ویروا کرو۔ (16)

سوال نمبر 7: "دیواتے دریا" دا تنقیدی ویروا کرو۔ (16)

سوال نمبر 8: لوک گیت "ڈھولا" آتے بھرواں لیکھ لکھو۔ (16)

سوال نمبر 9: کسے دو آتے نوٹ لکھو۔ (16)

(الف) پنجابی غزل دی نور (ارتقاء)

(ب) لوک گیت "لوری"

(ج) "پنجابی لسانیات"

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2019  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT  
PURE MATHEMATICS

Roll Number

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS = 100

- NOTE:** (i) Attempt FIVE questions in all by selecting TWO Questions each from SECTION-A&B and ONE Question from SECTION-C. ALL questions carry EQUAL marks.  
(ii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iii) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(iv) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(v) Extra attempt of any question or any part of the attempted question will not be considered.  
(vi) Use of Calculator is allowed.

SECTION-A

- Q. 1. (a) Show that the order and the index of a subgroup divides the order of a finite group. (10)  
(b) Show that every finite integral domain is a field. (10) (20)
- Q. 2. (a) Show that the characteristic of an integral domain is R is either zero or a prime. (10)  
(b) Determine whether or not the set  $\{(1, 2, -1), (0, 3, 1), (1, -5, 3)\}$  of vectors is a basis for  $R^3$ . (10) (20)
- Q. 3. (a) Show that a one-to-one linear transformation preserves basis and dimension. (10)  
(b) Solve the system of linear equations: (10) (20)
- $$\begin{aligned} 2x_1 + x_2 + 5x_3 &= 4 \\ 3x_1 - 2x_2 + 2x_3 &= 2 \\ 5x_1 - 8x_2 + 2x_3 &= 1. \end{aligned}$$

SECTION-B

- Q. 4. (a) Solve  $\int_0^{\frac{\pi}{2}} \sin^2 6x \cos^4 3x dx$ . (10)  
(b) Find the area enclosed by  $y = \frac{6}{2 - \cos \theta}$ . (10) (20)
- Q. 5. (a) Show that in any conic semi-latusrectum is the harmonic mean between the segments of focal chord. (10)  
(b) Prove that the evolute of hyperbola  $2xy = a$  is  $(x + y)^{\frac{2}{3}} - (x - y)^{\frac{2}{3}} = 2a^{\frac{2}{3}}$ . (10) (20)
- Q. 6. (a) Define Supremum and Infimum of a sequence. Find the supremum and infimum of the set (10)
- $$\left\{ (-1)^n \left( 1 - \frac{1}{n} \right), n = 1, 2, 3 \dots \right\}.$$
- (b) Evaluate (10) (20)
- $$\lim_{x \rightarrow 0} \frac{(1+x)^{\frac{1}{x}} - e}{x}.$$

**SECTION-C**

**Q. 7. (a)** Show that  $\text{Log}(1 + \cos \theta + i \sin \theta) = \ln(2 \cos \frac{\theta}{2}) + i \frac{\theta}{2}$ . (10)

**(b)** Find  $v$  such that  $f(z) = u + iv$  is analytic. (10) (20)

**Q. 8. (a)** Prove that the series  $z(1 - z) + z^2(1 - z) + z^3(1 - z) + \dots$  converges (10)  
for  $|z| < 1$ , and find its sum.

**(b)** Find the residues of  $f(z) = \frac{z^2-2z}{(z+1)^2(z^2+4)}$  at all its poles in the finite plane. (10) (20)

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2019  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

PUSHTO

|                                  |                    |               |
|----------------------------------|--------------------|---------------|
| TIME ALLOWED: THREE HOURS        | MAXIMUM MARKS = 20 | PART-I (MCQS) |
| PART-I(MCQS): MAXIMUM 30 MINUTES | MAXIMUM MARKS = 80 | PART-II       |

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt ONLY FOUR questions from PART-II. Answer must be written in respective language except where specified in the Question paper. ALL questions carry EQUAL marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of question will not be considered.

PART-II

سوال نمبر 2: (ii) د لاندینی وړکړی شوي انگریزي عبارت په معیاري پښتو کښی ترجمه اوکړی -

(14) Proverbs have been called the molecules of popular literature, for they provide the ingredients for the myths, the folk tales, the epics and folk poetry that express culture identity. This is especially true of the thousands of popular expressions that flow from the lips of Pakhtuns. Feeling and aspirations, reflections and revelations all are here in the popular sayings of approximately 22 million Pashto speaking people. Some proverbs are the embryonic punch lines found in folk tales, others teach and perpetuate customs and traditions that are an integral part of Pakhtun way of life.

(06) (2 each) وړکړی شوو متلونو کښی دری متلونه پښتو ته راوړوی. (b)

- (i) A short cut is often a wrong cut.  
(ii) A wool-seller knows a wool-buyer.  
(iii) Patience is a plaster for all sores.  
(iv) Small wit, great boast.  
(v) Let us see which way the wind blows.

سوال نمبر 3: (ii) د لاندینی پښتو عبارت په معیاري انگریزي کښی ترجمه اوکړی -

(14) پښتونولي د پښتو د ژوند نا لیکلی انښن دے . دی ته پښتو کلتور یا ثقافت هم وینلی شي. ولی د پښتونولي اصطلاح په خپلو معنو کښی ددغه بین الاقوامی اصطلاحاتو نه زیاته پراختیا لري. ځکه چی دا پښتونولي د ژوند نظام او طریق سره د پښتو د ایمان علامت هم گڼلی شي. داد پښتني اخلاقو او کردار فلسفه هم ده. او د پښتو د ژوند جواز هم که د پښتونولي د اصولو سره سم و خو ژوند ورته وینلی شي که نه و نو بیا په مرگ حساب دے. په دی چی پښتون که پښتون دے نو په پښتونولي پښتون دے.

(06) (2 each) (b) د پښتو د لاندینو متلونو نه د درېو متلونو په انگریزي کښی ترجمه اوکړی -

- (i) چی ځنگه ژرنده وي هغسی نی دوره وي. (ii) د باران نه پدی دمه د ناوی لاندی می شپه شوه.  
(iii) یو طرف ته دانگ دے بل طرف ته پراڼگ دے. (iv) مار خورلی د پری نه وریوی.  
(v) بلا وه برکت نی نه و.

سوال نمبر 4: پښتانه بني اسرائيل دي . ددی نظر نی په رد په تائید کښی خپل خیالات قلم ته وسپاری.

سوال نمبر 5: د حمید بابا د غزل خصوصیات د هغه د کلام په رڼا کښی وسنجوی.

سوال نمبر 6: اولسی شاعری څه ته والی؟ او په اصنافو نی زړه پوری بحث وکړی.

سوال نمبر 7: د خوشحال خان خټک د گرفتاری اسباب او وجوهات بیان کړی.

سوال نمبر 8: د غنی خان د شاعری ډېر ښکاره اړخ کوم یو دے؟ تفصیلی لیکل پری وکړی.

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2019  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

SINDHI

TIME ALLOWED: THREE HOURS

PART-I (MCQS)

MAXIMUM MARKS = 20

PART-I(MCQS): MAXIMUM 30 MINUTES

PART-II

MAXIMUM MARKS = 80

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.  
(ii) Attempt **ONLY FOUR** questions from PART-II. Answer must be written in respective language except where specified in the question paper. **ALL** questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

PART-II

- (20) سوال نمبر 2: سنڌي ٻوليءَ جي باري ۾ ڊاڪٽر نبي بخش خان بلوچ جو نظريو ڇا آهي؟ اوهان ان سان ڪيترن قدر سهمت آهيو؟
- (20) سوال نمبر 3: شاھ لطيف جي ستن سورمين: سسئي، سهڻي، مومل، مارئي، نوري، ليلا ۽ سورث مان ڪنهن هڪ تي شاھ جي بيتن جي حوالي سان نوٽ لکو.
- (20) سوال نمبر 4: سنڌي ٻوليءَ جا مختلف لهجا آهن، انهن ۾ ٻه مکيه لهجا آهن: (ا) لاڙي ۽ (ب) اترادي، انهن مان ڪنهن ٻه هڪ تي نوٽ لکو؟
- (20) سوال نمبر 5: محمّد عثمان ڏيپلانيءَ جو ناول ”سانگهڙ“ ڪهڙي تحريڪ جي حوالي سان آهي؟ تنقيدي جائزو پيش ڪريو.
- (20) سوال نمبر 6: هيٺين مان ڪنهن ٻه هڪ شاعر جي شاعريءَ جو تنقيدي جائزو وٺو: (الف) عبدالڪريم گدائي (ب) شيخ اياز (ج) طالب الموليٰ
- (20) سوال نمبر 7: غزل موجوده دور جي هڪ مقبول صنف آهي. ان حوالي سان ان تي مثالن سان تفصيلي نوٽ لکو.
- (10) سوال نمبر 8: (a) هيٺ ڏنل سنڌي فقري جو انگريزي ۾ ترجمو ڪريو؟  
لوڪ گيت هر ملڪ ۽ ان جي ٻوليءَ جي لوڪ ادب جو اهم ۽ قيمتي سرمايو آهن. سنڌي لوڪ گيت، سنڌ جي ثقافت ۽ سنڌين جي عوامي ادب جو ائينو آهن. عوامي ٻولن ۽ جذبن جو هيءُ سرچشمو سهڻن ۽ نمانن خيالن سان ڀرپور آهي.
- (10) (b) هيٺ ڏنل انگريزي پيراگراف جو سنڌي ۾ ترجمو ڪريو؟  
So far back as 1925, the late Pestonji Dubash published a pamphlete demanding that the problems of Sindh are not peculiar to Sindh. To grapple with them, Sindh must have a University of Sindh. To this no one has thanked him for his earnest plea, and he died a disappointed man.



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**SOCIOLOGY**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART – II**

- Q. No. 2.** There is continuous struggle between material and non-material cultures. In this process the non-material culture lag behind the material culture and create culture lag. As a sociologist give your opinion how to fill the gap. (20)
- Q. No. 3.** ‘Suicide varies inversely with the degree of integration of the social group of which the individuals forms a part’. In the light of this statement, discuss Emile Durkheim theory of egoistic, altruistic, anomic and fatalistic suicide. (20)
- Q. No. 4.** How culture ethnocentrism promotes social change and maintain social order. Comment? (20)
- Q. No. 5.** Auguste Comte gives three evolutionary dimensions of society; Theologian, metaphysic and positivistic. Explain each step with cogent examples. (20)
- Q. No. 6.** Discuss in detail that how unique culture ethos are impediments in the way of social change. Explain in detail the planned social change. (20)
- Q. No. 7.** Evaluate Karl Marx’s contribution to the concept of Alienation. Discuss different types of Alienation given by him. (20)
- Q. No. 8.** Write notes on the following (10 each) (20)
- (a)** Research proposal on Afghan war syndrome and its impacts on the economy of Pakistan.
- (b)** The role of religious leaders in the integration of Pakistani society.

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Roll Number

**STATISTICS**

|                                         |                      |                           |
|-----------------------------------------|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>        | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b> | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |

**NOTE: (i) Part-II is to be attempted on the separate Answer Book.**  
**(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.**  
**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**  
**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**  
**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**  
**(vi) Extra attempt of any question or any part of the question will not be considered.**  
**(vii) Use of Calculator is allowed.**

**PART – II**  
**SECTION – I**

- Q. 2. (a)** What is meant by a frequency distribution? Describe briefly the main steps in the preparation of a frequency table from raw data. (6)
- (b)** A man travels from A to B at average speed of 30 miles per hour and returns from B to A along the same route at an average speed of 60 miles per hour. Find the average speed of the entire journey. (6)
- (c)** Define mean-deviation and its co-efficient. Discuss its advantages and uses. (8) **(20)**  
 Estimate the mean deviation from the arithmetic mean of the following set of examination marks.

|                 |     |       |       |       |       |       |       |       |
|-----------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Marks           | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 |
| No. of students | 2   | 3     | 8     | 24    | 27    | 40    | 11    | 5     |

- Q. 3. (a)** Define mutually exclusive events. State and prove the theorem of addition of probabilities concerning mutually exclusive events. (6)
- (b)** Show that the multiplication law  $P(A \cap B) = P(A/B)P(B)$ , established for two events, may be generalized to three events as follows; (6)  

$$P(A \cap B \cap C) = P(A/B \cap C) P(B/C) P(C)$$
- (c)** There are three coins, identical in appearance, one of which is ideal and the other two biased with probabilities  $1/3$  and  $2/3$  respectively for a head. One coin is taken at random and tossed twice. If a head appears both the times, what is the probability that the ideal coin was chosen? (8) **(20)**

- Q. 4. (a) (i)** Explain briefly how the principle of least squares is used to find a regression line based on a sample of size n. Illustrate on a rough sketch the distance whose squares are minimized, taking care to distinguish the dependent and independent variables. (6)
- (ii)** Find the least square estimates of parameters in a simple linear regression model  $Y_i = \alpha + \beta X_i + e_i$  where  $e_i$ 's are distributed independently with mean zero and constant variance.
- (iii)** What are the properties of least square regression line?
- (b)** The following means, standard deviations and correlations are found for (6)  
 $X_1$  = Seed-hay crops in owts. Per acre  
 $X_2$  = Spring rainfall in inches  
 $X_3$  = Accumulated temperature above 42° F in spring in a certain district in England during 20 years.

$$\begin{aligned} \bar{X}_1 &= 28.02, & S_1 &= 4.42, & r_{12} &= 0.80, \\ \bar{X}_2 &= 4.91, & S_2 &= 1.10, & r_{13} &= -0.40, \\ \bar{X}_3 &= 594, & S_3 &= 85, & r_{23} &= -0.56, \end{aligned}$$

Find the partial correlation and the regression equation for hay-crop on spring rainfall and accumulated temperature.

# STATISTICS

- (c) What do you understand by nonparametric tests? Why such tests are also called (8) (20)  
distribution-free tests? Give the advantages and disadvantages of nonparametric  
tests over parametric tests. Describe the Wilcoxon signed-rank test for one sample.  
How does it differ from the sign test?

## SECTION-II

- Q. 5.** (a) Explain what you understand by the probability sampling and non probability (6)  
sampling. What are their relative advantages and disadvantages?  
(b) What is a sampling distribution? Describe the properties of the sampling distribution (6)  
of the means.  
(c) A finite population consists of the numbers 2, 4 and 6. Form a sampling distribution (8) (20)  
of sample mean, when random samples of size 4 is drawn with replacement. Also  
verify its properties.
- Q. 6.** (a) Under what condition is the sampling distribution of  $\frac{s_1^2}{s_2^2}$  an F-distribution? Explain (6)  
the relationship between the F and t distributions, between the F and Chi-Square  
distributions.  
(b) The proportion of families buying milk from company A in a certain city is believed (6)  
to be  $p=0.6$ . If a random sample of 10 families shows that 3 or less buy milk from  
company A, we shall reject the hypothesis that  $p=0.6$  in favour of the alternative  
 $p<0.6$ . Evaluate  $\alpha$  if  $p=0.6$ , evaluate  $\beta$  for the alternatives  $p=0.3$ ,  $p=0.4$  and  $p=0.5$ .  
(c) Define a Chi-square random variable and its density function. Discuss the important (8) (20)  
properties of Chi-square distribution. Show that the Chi-square distribution tends to  
normal distribution for large degrees of freedom.
- Q. 7.** (a) Describe the Randomized Complete Block Design, its model and analysis. What are (6)  
its advantages and disadvantages?  
(b) Compare Randomized Complete Block experiments with Completely Randomized (6)  
experiments, comparing their respective advantages and relative efficiency, with  
illustrations.  
(c) Three varieties A, B and C of a crop are tested in a randomized block design with four (8) (20)  
replications, the layout being given below. The plot yields in pounds are also indicated  
therein. Analyze the experimental yields and state your conclusions.

|              |   |        |        |        |
|--------------|---|--------|--------|--------|
| Replications | 1 | A 32.1 | C 34.2 | B 31.7 |
|              | 2 | C 30.7 | A 17.0 | B 32.7 |
|              | 3 | A 40.8 | B 25.3 | C 48.2 |
|              | 4 | B 47.9 | C 59.6 | A 26.8 |

- Q. 8.** (a) Define gross and net production rates. Explain how would you compute the net (6)  
production rate and what interpretations can be made if it is 1, less than 1 or greater  
than 1.  
(b) Explain with suitable illustrations the object of standardizing various vital statistics (6)  
relating to births, deaths and marriages.  
(c) Compute the gross and net reproduction rates for the following data: (8) (20)

| Age-group<br>(years) | Female<br>Population (000) | Female<br>births | Probability<br>of survival |
|----------------------|----------------------------|------------------|----------------------------|
| 15-19                | 1558                       | 18900            | 0.914                      |
| 20-24                | 1112                       | 71100            | 0.899                      |
| 25-29                | 1595                       | 96900            | 0.884                      |
| 30-34                | 1629                       | 64200            | 0.868                      |
| 35-39                | 1627                       | 34900            | 0.852                      |
| 40-44                | 1522                       | 10800            | 0.834                      |
| 45-49                | 1401                       | 800              | 0.813                      |



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**Roll Number**

**TOWN PLANNING & URBAN MANAGEMENT**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <b>TIME ALLOWED: THREE HOURS</b><br><b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PART-I (MCQS)</b><br><b>PART-II</b> | <b>MAXIMUM MARKS = 20</b><br><b>MAXIMUM MARKS = 80</b> |
| <b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b><br><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b><br><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b><br><b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b><br><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b><br><b>(vi) Extra attempt of any question or any part of the question will not be considered.</b> |                                        |                                                        |

**PART-II**

- Q. No. 2.** Discuss various types of plans used in town planning. Discuss master plan in detail. (20)
- Q. No. 3.** What are the conventional transport indicators to evaluate transportation quality? Why they contradict with sustainable transport objectives? Classify sustainable transportation indicators according to economic, social and environmental impacts. (20)
- Q. No. 4.** Discuss the evolution of urbanization in Pakistan. What major challenges does it pose? Suggest some best possible options to manage urbanization in Pakistan. (20)
- Q. No. 5.** What are the salient features of mega cities? Explain the risks and opportunities that mega cities pose in developing world and how these problems can be handled? (20)
- Q. No. 6.** Elaborate the relevance of Economic development and Urban community development. Discuss several ways in which tools of equitable development (key skills, policies and measures) can help in achieving equitable development. (20)
- Q. No. 7.** Discuss urban planning of Indus Valley. Compare the master and systems planning aspects of Indus valley with that of Mesopotamia. (20)
- Q. No. 8.** Write short notes on any TWO of the following using appropriate examples. (10 each) (20)
- i.** Urban Sprawl
  - ii.** John Ratcliff's classification of planning process
  - iii.** Urban encroachments and their removal.

\*\*\*\*\*



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Roll Number

URDU LITERATURE

TIME ALLOWED: THREE HOURS

PART-I (MCQs)

MAXIMUM MARKS = 20

PART-I(MCQs): MAXIMUM 30 MINUTES

PART-II

MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Attempt ALL questions.

(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.

(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

(vi) Extra attempt of any question or any part of the question will not be considered.

PART - II

سوال نمبر 2 (الف) درج ذیل میں سے کسی ایک جزو کی تشریح کیجیے اور شاعر کا نام بھی لکھیے۔

(15)

(۲) اصل شہود و مشاہدہ مشہود ایک ہے

(۱) تجھی وہ اک شخص کے تصور سے

حیراں ہوں پھر مشاہدہ ہے کس حساب میں

اب وہ رعنائی خیال کہاں

(۳) رکھتے ہوتے قدم مری آنکھوں سے کیوں درخ

(۳) پر تو خور سے ہے شبنم کونفا کی تعلیم

رُتے میں مہر و ماہ سے کم تر نہیں ہوں میں

میں بھی ہوں ایک عنایت کی نظر ہونے تک

تند و سبک سیر ہے گر چہ زمانے کی رو

جزو دوم

عشق خود اک سیل ہے، سیل کو لیتا ہے تمام

عشق کی اتقویم میں عصر رواں کے سوا

اور زمانے بھی ہیں جن کا نہیں کوئی نام

عشق کے مضراب سے نغمہء تار حیات

عشق سے نور حیات، عشق سے تار حیات

(10)

(ب) مندرجہ ذیل میں سے کسی ایک سوال کا جواب دیجیے۔

مجید امجد کی شاعری میں لحدء موجود کی معنویت اجاگر کریں۔

یا

”ایران میں اجنبی“ کو پیش نظر رکھتے ہوئے راشد کی نظموں کا سماجیاتی مطالعہ پیش کریں۔

(15)

سوال نمبر 3 (الف): روایت اور درایت سے کیا مراد ہے؟ ”سیرۃ النبی ﷺ“ کی تالیف میں مولانا شبلی نے ان اصولوں کو کس حد تک اختیار کیا؟

یا

مشاق احمد یوسفی کی دیگر تصانیف اور ”آبِ گم“ کا تقابلی مطالعہ پیش کیجیے۔

(10)

(ب) درجہ ذیل میں سے کسی ایک اقتباس کی تشریح کیجیے نیز مضمون کا عنوان اور مصنف کا نام بھی لکھیے۔

خود مختار حکومتوں میں ایک بڑا عیب یہ ہوتا ہے کہ ان میں سازشوں کی بہت گنجائش ہوتی ہے۔ ہر شخص کی (خواہ وہ کوئی ہو) یہ کوشش ہوتی ہے کہ کسی نہ کسی

طرح ”سرکار“ کو خوش کر لیا جائے جس سے ”پیا“ خوش، اسی کاراج۔ اس سہمی میں رقابت ہوتی ہے اور رقابت سے طرح طرح کی سازشوں اور ریشہ

دوانیوں کا سلسلہ چلتا ہے۔ اس کشمکش سے کذب و افتراء، بہتان، مجہری، غرض کوئی ایسی حرکت نہیں ہوتی جو حریف ایک دوسرے کے خلاف کام میں نہ

لا تے ہوں۔ یہ ایک عجیب اسرار ہے جس کا سلسلہ دُور دُور تک پہنچتا ہے اور عجیب رنگ میں ظہور پذیر ہوتا ہے اور ایسے حیرت انگیز نتائج پیدا ہوتے ہیں

جس کا سامان گمان بھی نہیں ہوتا۔

یا

انسان کی زندگی بہت تھوڑی ہے، بہت مشکل ہے کہ وہ اس چند روزہ حیات میں تحصیل بھی کرے، پایہ کمال کو بھی پہنچے اور ایسے کام کرے جنہیں بقائے دوام ہو اور خلق خدا کو ان سے فائدہ پہنچے۔ وقت ایک نعمت ہے اور خدا کی دوسری نعمتوں کی طرح انسان وقت پر اس کی بھی قدر نہیں کرتا اور قدر اس وقت ہوتی ہے جب کہ انسان کے پاس وقت ہاتھ سے نکل جاتا ہے۔ انسان دنیا میں نہیں رہتا مگر اس کے اعمال رہ جاتے ہیں لیکن کتنے اعمال ایسے ہیں جنہیں بقا ہو اور جو قدر و وقعت سے دیکھے جاتے ہوں اور جو لوگوں کے دلوں پر قبضہ رکھتے ہوں۔

(10)

سوال نمبر 4: درج ذیل میں سے کسی ایک نثر پارے کی تلخیص کیجیے۔

(1) ہر دکھ، ہر غم کے بعد زندگی آدمی پر اپنا ایک راز کھول دیتی ہے۔ بودھ گیا کی چھاؤں تلے بدھ بھی ایک دکھ بھری تپتیا سے گزرے تھے۔ جب پیٹ پیٹھ سے لگ گیا، آنکھیں اندھے کوڑوں کی تہ میں بے نور ہوئیں اور ہڈیوں کی مالا میں بس سانس کی ڈوری اٹکی رہ گئی، تو گوتم بدھ پر بھی ایک مجید کھلتا ہے نروان گھلا تھا۔ جیسا اور جتنا اور جس کارن آدمی دکھ بھوگتا ہے، ویسا ہی مجید اس پر کھلتا ہے۔ نروان ڈھونڈنے والے کو نروان مل جاتا ہے۔ اور جو دنیا کی خاطر کشت اٹھاتا ہے تو دنیا اس کو راستہ دیتی چلی جاتی ہے۔ سو گلی گلی خاک پھانکنے اور دفن دفن دھکے کھانے کے بعد قبلہ کے قلب حزیں پر کچھ لقا ہوا۔ اور وہ یہ کہ قاعدے قانون دانوں اور جاہلوں نے کم زور دل والوں کو قابو میں رکھنے کے لیے بنا لے ہیں۔ جو شخص ہاتھی کی لگام ہی تلاش کرتا رہ جائے وہ کبھی اس پر چڑھ نہیں سکتا۔ جام اس کا ہے جو بڑھ کر خود ساقی کو جام و مینا سمیت اٹھالے۔ بالفاظ دیگر، جو بڑھ کر تالا توڑ ڈالے، مکان اسی کا ہو گیا۔

یا

(۲) بسنت اور برسات میں لاہور کا آسمان آپ کو کبھی بے رنگ، اکتایا ہوا اور نچلا نظر نہیں آئے گا۔ لاڈلے بچے کی طرح چیخ چیخ کے ہمہ وقت اپنی موجودگی کا احساس دلاتا ہے اور توجہ کا طالب ہوتا ہے کہ ادھر دیکھو! اس وقت مجھے ایک شوٹی سو جھی ہے۔ کیسے کیسے رنگ بدلتا ہے۔ کبھی تاروں بھرا۔ بچوں کی آنکھوں کی مانند جگمگ جگمگ۔ کبھی نوری فاصلوں پر کہکشاں کی افشاں۔ اور کبھی اودی گھٹاؤں سے زرتار باراں۔ کبھی تاجنے کی طرح تپتے تپتے ایکا اکی امرت برسانے لگا اور خشک کھیتوں اور اداس آنکھوں کو جل تھل کر گیا۔ ابھی کچھ تھا، ابھی کچھ ہے۔ گھڑی بھر کو قرار نہیں۔ کبھی مہرباں۔ کبھی قہر بداماں۔ پل میں اگن کند، پل میں نیل جمیل۔ ذرا دیر پہلے تھل، بیہڑ صحراؤں کا غبار اٹھائے، لال پیلی آنندھیوں سے بھرا بیٹھا تھا۔ پھر آپی آپ دھرتی کے گلے میں بانہیں ڈال کے کھل گیا۔ جیسے کچھ ہوا ہی نہ تھا۔

(20)

سوال نمبر 5: کسی ایک موضوع پر مضمون تحریر کیجیے۔

(۱) عالمگیریت اور مقامی ثقافتیں۔

(۲) اردو ناول کے جدید رجحانات۔

(۳) میر تقی میر، دل اور دی۔



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**COMPETITIVE EXAMINATION-2019**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ZOOLOGY**

**TIME ALLOWED: THREE HOURS**

**PART-I (MCQS)**

**MAXIMUM MARKS = 20**

**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-II**

**MAXIMUM MARKS = 80**

- NOTE:** (i) **Part-II** is to be attempted on the separate **Answer Book**.  
(ii) Attempt **ONLY FOUR** questions from **PART-II**. **ALL** questions carry **EQUAL** marks.  
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.  
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.  
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.  
(vi) Extra attempt of any question or any part of the question will not be considered.

**PART – II**

- Q. No. 2.** Discuss emerging vector-borne zoonotic diseases of public health importance. Describe the impact of climate change on vector-borne diseases. (20)
- Q. No. 3.** How the members of Chordates are different from Hemichordates? Name five hallmarks shared by all chordates and describe functions of each. (20)
- Q. No. 4.** What is the difference between bird's migration and navigation? Discuss navigational resources used by different bird species in long distance migration. (20)
- Q. No. 5.** How gene mutation differ from chromosomal aberration? Discuss the type(s) of mutation responsible for new variation of a trait. (20)
- Q. No. 6.** Discuss sexual and asexual reproduction in protozoa. Explain parthenogenesis. (20)
- Q. No. 7.** Describe Fluid-Mosaic Model of the plasma membrane. What are different types of movements across the plasma membrane? (20)
- Q. No. 8.** Discuss the structure and functions of different types of neurons. Describe general pathway for the flow of information within the nervous system. (20)

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