



# FEDERAL PUBLIC SERVICE COMMISSION

## COMPETITIVE EXAMINATION – 2020 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll No.

### 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. **Do we really need literature in our lives?**
2. **Women universities as agents of change.**
3. **Pakistan and the future of Kashmir cause.**
4. **Polarized politics: the issues and challenges of democracy in Pakistan.**
5. **Global power dynamics and Pakistan's foreign policy.**
6. **Pakistan's informal economy: the way forward.**
7. **Promoting tourism in Pakistan: opportunities and challenges.**
8. **I do not agree with what you have to say, but I'll defend to the death your right to say it.**
9. **Is Pakistan ready for digital revolution?**
10. **IMF bailouts: roads to stability or recipes for disaster.**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION – 2020 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)**

Manto was a victim of some kind of social ambivalence that converged on self-righteousness, hypocrisy, and mental obtuseness. His detractors branded him as vulgar and obscene and implicated him into a long-drawn legal battle questioning the moral validity of his writings. Without being deterred by their negative tactics, he remained firm in his commitment to exploring the stark realities of life offensive to the conservative taste of some self-styled purists. In the line of Freud, he sought to unravel the mysteries of sex not in an abstract, non-earthly manner but in a palpable, fleshy permutation signifying his deep concern for the socially disabled and depressed classes of society, like petty wage-earners, pimps, and prostitutes.

For Manto, man is neither an angel nor a devil, but a mix of both. His middle and lower middle class characters think, feel and act like human beings. Without feigning virtuosity, he was able to strike a rapport with his readers on some of the most vital socio-moral issues concerning them. As a realist, he was fully conscious of the yawning gap between appearance and reality; in fact, nothing vexed him more than a demonstrable duality in human behaviour at different levels of the social hierarchy. He had an unjaundiced view of man's faults and follies. As a literary artist, he treated vulgarity discreetly --- without ever sounding vulgar in the process. Like Joyce, Lawrence, and Caldwell, in Manto's work too, men and women of the age find their own restlessness accurately mirrored. And like them, Manto was also 'raised above his own self by his sombre enthusiasm'.

**Q. 3. Read the following passage carefully and answer the questions given at the end. (20)**

Globalization is viewed by its proponents as a process of cementing economic, cultural and political bonds between peoples of different countries of the world. One may regard it as a process by which they are welded into a single world society, to be termed as global society. It means internationalization of production and labour leading to integration of economies of developing and developed countries into global economy. To quote Rosabeth M.Kanter, "The world is becoming a global shopping mall in which ideas and products are available everywhere at the same time."

Globalization is a natural outcome of computer networking and electronic mass communication. Information technology has made it possible for nations of the world to contact one another beyond their national borders. Besides, globalization is also promoted through the growth and proliferation of multinational companies and corporations that operate as transporter networks. Anyhow the flow of capital technology and labour across the borders of countries has accentuated the process of globalization.

Deregulation, liberalism and privatization being assiduously pursued in the developing countries are some other manifestations of globalization. These countries are opening their economies to follow these trends. The size of the public sector is shrinking for the private sector to assume an increasingly important role in the economic development of the Third World countries. The downsizing of the public sector is in line with the spirit of market economy. This is suggested as a measure to cover up their fiscal deficit.

**Questions: (4 marks each)**

1. Define globalization.
2. What is electronic mass communication?
3. What does the term Third World denote?
4. What is privatization?
5. Explain 'liberalism' in the above context.

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

- (i) I won him in the race.
- (ii) He said that I am playing chess.
- (iii) Unless you do not try, you will never succeed.
- (iv) He wrote with ink.
- (v) What country he belongs to?
- (vi) When he reaches to manhood, he will visit to England.
- (vii) The new session commences from February 1st, 2020.
- (viii) Please send this letter on my address.

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

Letters between relatives and friends are called personal letters the most important thing in such letters is the content don't begin with a hackneyed phrase like I was delighted to get your letter received your letter or I have often thought of writing to you use a vigorous clear chatty style

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

- (i) I was annoyed ----- him.
- (ii) This train is bound ----- Gujrat.
- (iii) The pistol went ----- by accident.
- (iv) He kept ----- asking silly questions.
- (v) He was knocked ----- by the bus.
- (vi) Do not meddle ----- my affairs.
- (vii) The meeting was put ----- by the Chairman.
- (viii) He rounded ----- his speech with a quote from Ghalib.

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

- (i) To break the ice
- (ii) Nip in the bud
- (iii) See eye to eye with
- (iv) For good
- (v) Tamper with
- (vi) The small hours
- (vii) Keep up appearances
- (viii) Prima facie

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

دنیا کی ہر قوم کا نظام تعلیم اپنی قوم کے مزاج سے ہم آہنگ ہوتا ہے جو قومی اور ملی مقاصد کی تشکیل و تکمیل کرتا ہے۔ اور قوم مطلوبہ مقاصد کے لیے سرگرم عمل رہتی ہے۔ چنانچہ کسی قوم کا نظام تعلیم وہ ہمہ گیر نظام تربیت ہے جس کے تحت قوم کے افراد کی ذہنی صلاحیتوں کو پروان چڑھانے اور ان کی سیرت و کردار کی تعمیر میں مدد ملتی ہے۔ نظام تعلیم افراد کی تربیت اس انداز سے کرتا ہے کہ افراد قوم کی تقدیر بدل دیتے ہیں۔

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Roll Number

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

<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.** What impact global climate change will have on the water resources of Pakistan? How will it affect inter-provincial harmony? **(20)**
- Q. No. 3.** Why was Pakistan placed on the 'Grey List' of Financial Action Task Force (FATF)? What are the implications and what measures should Pakistan take to move out of this list? **(20)**
- Q. No. 4.** Given the volatile lockdown in Indian Occupied Kashmir, what are the viable policy choices available to Pakistan? What can Pakistan realistically do to ease the sufferings of Kashmiri people? **(20)**
- Q. No. 5.** Discuss the strategic contours of Indo-US evolving partnership and how will it impact Pakistan-US and Pakistan-China relations? **(20)**
- Q. No. 6.** Strategic competition in the Indo-Pacific region is increasingly becoming intense. Define the interests and role of US, China, India, Japan and Australia in the geopolitics of Indo-Pacific region. **(20)**
- Q. No. 7.** Discuss in detail the role of OIC, Arab league and GCC in the Middle East crises and conflicts. **(20)**
- Q. No. 8.** In view of the evolving global alignments and changing nature of major-power relationships, what is the future of globalism and multilateralism? Discuss with examples. **(20)**

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Roll Number

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

<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.** How the reform movement of Shaikh Ahmad Sirhindi influenced the history of Muslim India? **(20)**
- Q. No. 3.** China, Pakistan-Russia cooperation will find suitable support mechanism in Shanghai Cooperation organization (SCO). Elaborate. **(20)**
- Q. No. 4.** What are the major provisions of Simla Agreement (1972) between Pakistan and India? How it was helpful for establishment of durable peace in the region? **(20)**
- Q. No. 5.** What is meant by the term "Proxy War"? Are there any extrinsic factors at play in the internal security situation of Pakistan? **(20)**
- Q. No. 6.** Discuss the main features of Political culture of Pakistan. **(20)**
- Q. No. 7.** Pakistan's energy crisis was due to the lack of strategy and political will. Discuss. **(20)**
- Q. No. 8.** Discuss revival of Pak-US relations in context of present US-Taliban peace process. **(20)**

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

<b>Roll Number</b>
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<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>		

**PART – II (SECTION – A)**

- Q. 2. (a)** On 7<sup>th</sup> April 2012 an Avalanche hit a Pakistan military base in Gayari sector trapping 140 soldiers and civilians under deep snow. What is Avalanche; describe its four types with focus on most dangerous type? (5)
- (b)** What do you understand by Global Wind and Pressure patterns? Also explain wind and pressure features at higher altitude. (5)
- (c)** World largest earthquake was assigned a magnitude of 9.5 by the United States Geological Survey on 22 May 1960 in southern Chile Valdivia. What do you know about earthquake? Also explain shallow-focus and deep-focus earthquakes. (5)
- (d)** Differentiate between the renewable and non renewable energy sources. Briefly explain Geothermal Energy and Hydro Electricity. (5)(20)
- Q. 3. (a)** What are Pesticides? Explain their different types; why persistent pesticides are more lethal for mankind? (5)
- (b)** What are carbohydrates? Classify and give detail of each class along with examples. (5)
- (c)** Discuss different methods of Food preservation. (5)
- (d)** Where and how Fiber Optics are used? Also write down their advantages and disadvantages. (5)(20)
- Q. 4. (a)** Briefly describe the various segments of atmosphere. How these segments are maintaining the Earth Radiation Balance? (5)
- (b)** How the organic particulate matter enters in the atmosphere. Also describe the sources? (5)
- (c)** What is natural radioactivity? How it is different from the artificial radioactivity? (5)
- (d)** What are the Fossils? Discuss the importance of paleontology. (5)(20)
- Q. 5. (a)** What do you know about Hepatitis? Describe its types and write down preventive measures. (5)
- (b)** Differentiate between Middle Latitude Cyclones and Tornadoes. (5)
- (c)** What is Open System Interconnections (OSI) and describe its layers? (5)
- (d)** What is GPS? How does it work? (5)(20)

**(SECTION – B)**

- Q. 6. (a)** Tariq can do a tailoring job in 6 hours. Sajid does the same job in 4 hours. Irfan does it in 8 hours. Tariq and Sajid start doing the work. Sajid leaves after two hours and Irfan replaces him. How long would it take to complete the work? (5)
- (b)** Find the missing number to complete each sum. (5)
- (a)  $9 + 8 - 5 = 2 \times (\text{-----})$  (b)  $3 \times 9 - 14 = 24 - (\text{-----})$
- (c)  $15 \div 3 \times 12 = 41 + (\text{-----})$  (d)  $24 \div 4 + 5 = 66 \div (\text{-----})$
- (e)  $8 \times 6 - 13 + 3 = 7 \times 6 - (\text{-----})$
- (c)** There are seven students in a group having ages 17,17,18,18,18,19,19. Calculate mean, median, mode and range of their ages. Also define these mentioned terms. (5)
- (d)** How does mental ability scales differ from IQ test? (5)(20)
- Q. 7 (a)** Mushtaq, Pervaiz, Ehsan, Umair and Saleem are friends having different heights and weights. Mushtaq weighs four times as much as Pervaiz and Pervaiz weighs double than Ehsan, Ehsan weighs half as much as Umair and Umair weighs half as much as Saleem. (5)
- (i) Who is the heaviest among five friends? (ii) Who is the second heaviest? (iii) Who has lowest weight? (iv) Who are equal in weight? (v) Mention the descending order.
- (b)** A farmer needs to build a boundary wall around his farm. If the area of farm is  $484 \text{ m}^2$ , what will be the total area of the wall if it is two meters high on three sides and three meters high on one side? (5)
- (c)** Five girls A,B,C,D,E and four boys W,X,Y,Z have to go to a trip in three cars, car-1,car-2 and car-3. The following restrictions for seating in car are to be observed: (5)
- (i) Only three persons can sit in one car (ii) At least one boy and one girl must be in each car
- (iii) A and D should remain together (iv) Z cannot sit with B or C in the same car
- Distribute boys and girls in three cars.
- (d)** What are social skills? Describe four causes of weak social skills. (5)(20)
- Q. 8. (a)** What do you understand by systematic sampling? Discuss its types. (5)
- (b)** Blood groups of inhabitants of a village were checked. It was found that 600 people possessed blood group A, 650 possessed blood group B, 550 had blood group AB and 200 have blood group O. Calculate the probability of having blood group B. (ii) Calculate the probability of having blood group O. (5)
- (c)** A group of 50 men can construct 20 kilometer road in 40 days. How long will 70 men take to complete same length of road? (5)
- (d)** Zahid left a property worth Rs 1750,000/-. His family had to pay off a debt of Rs 150,000/-. The rest of money was distributed between a son and a daughter. How much did each child receive if share of a son was double than that of a daughter? (5)(20)



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Roll Number

**ISLAMIC STUDIES**

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 the status and grade of "Tolerance and Forgiveness" in the life of the Holy Prophet (PBUH). (20)
- Q. No. 3. Write a comprehensive note on the bravery and juridical Wisdom of Hazrat Ali (R.A) (20)
- Q. No. 4. "The last Sermon of the Holy Prophet (PBUH) is the basic document for awakening of conscious of mankind for human rights". Discuss. (20)
- Q. No. 5. Discuss in detail the principles and terms & conditions for "Jihad" in the light of Quran and Sunnah. (20)
- Q. No. 6. Analyze the Madina Accord as a "Social Contract" in detail. (20)
- Q. No. 7. "Islam teaches the lesson of human respect and dignity irrespective of colour, race and creed". Discuss. (20)
- Q. No. 8. "Islamic Financial and Economic system is the solution of the human financial problems". Discuss. (20)

**URDU VERSION**

- سوال نمبر 2: نبی اکرم ﷺ کی حیات مبارکہ میں تحمل و برداشت اور عفو و درگزر کو جو مقام حاصل ہے اسکا احاطہ کیجئے۔ (20)
- کی شجاعت اور فقیہانہ تدبیر پر ایک جامع شذرہ تحریر کیجئے۔ (20) اللہ وجہ کر سوال نمبر 3: حضرت علی
- سوال نمبر 4: دنیا میں انسانی حقوق کی شعوری بیداری کیلئے "خطبہ حجۃ الوداع" اہم اور بنیادی دستاویز ہے۔ بحث کریں۔ (20)
- سوال نمبر 5: قرآن و سنت کی روشنی میں جہاد کے اصول و شرائط پر تفصیلی بحث کریں۔ (20)
- سوال نمبر 6: میثاق مدینہ کا معاہدہ عمرانی (سوشل کنٹریکٹ) کی حیثیت سے مفصل تجزیہ پیش کریں۔ (20)
- سوال نمبر 7: اسلام بلا تمیز رنگ و نسل و مذہب انسانی وقار و احترام کا درس دیتا ہے۔ بحث کریں۔ (20)
- سوال نمبر 8: اسلام کا معاشی و اقتصادی نظام ہی انسانیت کی معاشی مشکلات کا حل ہے۔ بحث کریں۔ (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**ACCOUNTANCY AND AUDITING, PAPER-I**

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>

- 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.** On September 1,2011, the account balances of R and Equipment Repair, Inc. were as follows. **(20)**

No.	Debits	No.	Credits
101	Cash Rs. 4,880	154	Accumulated Depreciation Rs. 1,500
112	Accounts Receivable 3,520	201	Accounts Payable 3,400
126	Supplies 2,000	209	Unearned Service Revenue 1,400
153	Store Equipment 15,000	212	Salaries Payable 500
		311	Common Stock 15,000
		320	Retained Earnings 3,600
	Rs.25,400		Rs.25,400

During September the following summary transactions were completed.

- Sept. 8 Paid Rs.1,400 for salaries due employees, of which Rs.900 is for September.
- 10 Received Rs.1,200 cash from customers on account.
- 12 Received Rs.3,400 cash for services performed in September.
- 15 Purchased store equipment on account Rs.3,000.
- 17 Purchased supplies on account Rs.1,200.
- 20 Paid creditors Rs.4,500 on account.
- 22 Paid September rent Rs.500.
- 25 Paid salaries Rs.1,250.
- 27 Performed services on account and billed customers for services provided Rs.1,500.
- 29 Received Rs.650 from customers for future service.

Adjustment data consist of:

Supplies on hand Rs.1,200. Accrued salaries payable Rs.400. Depreciation is Rs.100 per month. Unearned service revenue of Rs.1,450 is earned.

**Required**

- (a) Journalize the September transactions. Prepare a trial balance at September 30.
- (b) Journalize and post adjusting entries. Prepare an adjusted trial balance.
- (c) Prepare an income statement and a retained earnings statement for September and a balance sheet at September 30.

**Q. 3. (A)** Industry A has three companies whose income statements and balance sheets are summarized below. **(10)**

	Company X	Company Y	Company Z
Sales	Rs. 500,000	(d)	(g)
Net income	Rs. 25,000	Rs.30,000	(h)
Total assets	Rs. 100,000	(e)	Rs.250,000
Total asset turnover	(a)	(f)	0.4
Profit margin	(b)	0.4%	5%
Return on total assets (ROA)	(c)	2%	(i)

First supply the missing data in the table above. Then comment on the relative performance of each company.



# ACCOUNTANCY AND AUDITING, PAPER-I

- (B) The Rivers Company reports the following data relative to accounts receivable: (10) (20)

	20X8	20X9
Average accounts receivable	Rs. 400,000	Rs. 416,000
Net credit sales	Rs. 2,600,000	Rs. 3,100,000

The terms of sale are net 30 days.

- (a) Compute the accounts receivable turn over and the collection period, and  
(b) Evaluate the results.

- Q. 4. (A) The Wessal Karim Corporation is considering installing a new conveyor for materials handling in a ware house. The conveyor will have an initial cost of Rs. 85,000 and an installation cost of Rs. 6,000. Expected benefits of the conveyor are: (a) Annual labor cost will be reduced by Rs. 17,000, and (b) breakage and other damages from handling will be reduced by Rs. 600 per month. Some of the firm's costs are expected to increase as follows: (a) Electricity cost will rise by Rs.200 per month, and (b) annual repair and maintenance of the conveyor will amount to Rs.999. Assume the firm uses the MACRS rules for depreciation in the 5-year property class. No salvage value will be recognized for tax purposes. The conveyor has an expected useful life of 8 years and a projected salvage value of Rs. 4,500. The tax rate is 35 percent. (10)

- (a) Estimate future cash inflows for the proposed project.  
(b) Determine the projects NPV at 10 percent. Should the firm buy the conveyor?

- (B) Majid, Inc., accountants have developed the following data from the company's accounting records for the year ended April 30, 2017: (10) (20)

- a) Purchase of plant assets, Rs.59,400.
- b) Cash receipt from issuance of notes payable, Rs.46,100.
- c) Payments of notes payable, Rs.44,000.
- d) Cash receipt from sale of plant assets, Rs.24,500.
- e) Cash receipt of dividends, Rs.4,800.
- f) Payments to suppliers, Rs.374,300.
- g) Interest expense and payments, Rs.12,000.
- h) Payments of salaries, Rs.88,000.
- i) Income tax expense and payments, Rs.37,000.
- j) Depreciation expense, Rs.59,900.
- k) Collections from customers, Rs.605,500.
- l) Payment of cash dividends, Rs.49,400.
- m) Cash receipt from issuance of common stock, Rs.64,900.
- n) Cash balance: April 30, 2016, Rs.40,000; April 30, 2017, Rs.121,700.

**Required:** Prepare Majid's statement of cash flows for the year ended April 30, 2017. Use the direct method for cash flows from operating activities.

## SECTION – II

- Q. 5. (A) Modern Geezer Company has two departments. Factory overhead costs are applied based on direct labour cost in Department A and machine hours in Department B. The following information is available: (10)

Budgeted Items	Dept. A	Dept. B
Direct labour cost	Rs.180,000	Rs.165,000
Machine hours	51,000	40,000
Factory overhead cost	Rs.225,000	Rs.180,000

Actual data for Job #10 are as follows:

Actual Items	Dept. A	Dept. B
Direct materials requisitioned	Rs.10,000	Rs.16,000
Direct labour cost	Rs.11,000	Rs.14,000
Machine hours	5,000	3,000

**Required:**

- (A) Compute the budgeted factory overhead rate for Department A.  
(B) Compute the budgeted factory overhead rate for Department B.  
(C) What is the total overhead cost for Job #10?  
(D) If Job #10 consists of 50 units of product, what is the unit cost of this job?

## ACCOUNTANCY AND AUDITING, PAPER-I

- (B) Chief Manufacturing is a small textile manufacturer using machine-hours as the single indirect-cost rate to allocate manufacturing overhead costs to the various jobs contracted during the year. The following estimates are provided for the coming year for the company and for the Somerset High School Science Olympiad Jacket job. (10) (20)

	<u>Company</u>	<u>Somerset High School Job</u>
Direct materials	Rs. 25,000	Rs. 600
Direct manufacturing labor	Rs. 5,000	Rs. 200
Manufacturing overhead costs	Rs. 20,000	
Machine-hours	40,000 mh	800 mh

**Required:**

- For Chief Manufacturing, determine the annual manufacturing overhead cost-allocation rate.
- Determine the amount of manufacturing overhead costs allocated to the Somerset High School job.
- Determine the estimated total manufacturing costs for the Somerset High School job.

- Q. 6. (A) Sodus Chemical Inc. placed 220,000 liters of direct materials into the mixing process. At the end of the month, 5,000 liters were still in process, 30% converted as to labor and factory overhead. All direct materials are placed in mixing at the beginning of the process and conversion costs occur evenly during the process. Sodus uses weighted-average costing. (10)

**Required:**

- Determine the equivalent units in process for direct materials and conversion costs, assuming there was no beginning inventory.
- Determine the equivalent units in process for direct materials and conversion costs, assuming that 12,000 liters of chemicals were 40% complete prior to the addition of the 220,000 liters.

- (B) Asghar Manufacturing Company sells its products for Rs.33 each. The current production level is 50,000 units, although only 40,000 units are anticipated to be sold. (10) (20)

Unit manufacturing costs are:

Direct materials	Rs. 6.00
Direct manufacturing labor	Rs. 9.00
Variable manufacturing costs	Rs. 4.50
Total fixed manufacturing costs	Rs.180,000
Marketing expenses	Rs.3.00 per unit, plus Rs.100,000 per year

**Required:**

- Prepare an income statement using absorption costing.
- Prepare an income statement using variable costing.

- Q. 7. (A) Big Mind Corporation was recently formed to produce a semiconductor chip that forms an essential part of the personal computer manufactured by a major corporation. The direct materials are added at the start of the production process while conversion costs are added uniformly throughout the production process. June is Big Mind's first month of operations, and therefore, there was no beginning inventory. Direct materials cost for the month totaled Rs.950,000, while conversion costs equaled Rs.4,625,000. Accounting records indicate that 475,000 chips were started in June and 425,000 chips were completed. (10)

Ending inventory was 50% complete as to conversion costs.

**Required:**

- What is the total manufacturing cost per chip for June?
- Allocate the total costs between the completed chips and the chips in ending inventory.

- (B) The following information was gathered for Smart-view Company for the year ended December 31, 2018: (10) (20)

	<u>Budgeted</u>	<u>Actual</u>
Direct labor-hours	75,000 dlh	80,000 dlh
Factory overhead	Rs.600,000	Rs.625,000

Assume that direct labor-hours are the cost-allocation base.

**Required:**

- Compute the budgeted factory overhead rate.
- Compute the factory overhead applied.
- Compute the amount of over/under applied overhead.

## ACCOUNTANCY AND AUDITING, PAPER-I

- Q. 8. (A)** Umar Company produces baseball bats and cricket paddles. It has two departments that process all products. During July, the beginning work in process in the cutting department was half completed as to conversion, and complete as to direct materials. The beginning inventory included Rs.40,000 for materials and Rs.60,000 for conversion costs. Ending work-in-process inventory in the cutting department was 40% complete. Direct materials are added at the beginning of the process. (10)

Beginning work in process in the finishing department was 80% complete as to conversion. Direct materials for finishing the units are added near the end of the process. Beginning inventories included Rs.24,000 for transferred-in costs and Rs.28,000 for conversion costs. Ending inventory was 30% complete. Additional information about the two departments follows:

	Cutting	Finishing
Beginning work-in-process units	20,000	24,000
Units started this period	60,000	
Units transferred this period	64,000	68,000
Ending work-in-process units		20,000
Material costs added	Rs. 48,000	Rs. 34,000
Conversion costs	28,000	68,500
Transferred-out cost	128,000	

**Required:**

Prepare a production cost worksheet, using FIFO for the finishing department.

- (B)** During February the Luqman Manufacturing Company's costing system reported several variances that the production manager was surprised to see. Most of the company's monthly variances are under Rs.225, even though they may be either favorable or unfavorable. The following information is for the manufacturing of garden gates, its only product: (10) (20)

1. Direct materials price variance, Rs.900 unfavorable.
2. Direct materials efficiency variance, Rs.1,900 favorable.
3. Direct manufacturing labor price variance, Rs.4,100 favorable.
4. Direct manufacturing labor efficiency variance, Rs.700 unfavorable.

**Required:**

- (a) Provide the manager with some ideas as to what may have caused the price variances.
- (b) What may have caused the efficiency variances?

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

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>
<b>NOTE:</b> (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.** Why computerized audit is required in the presence of manual audit? Elaborate the computerized auditing by application of Computer Assisted Audit Techniques (CAAT). (20)
- Q. 3.** Define audit and auditing. Comment on the auditor’s (dependence) consideration of “reasonable assurance” and “True & Fair view” for the financial audit of a corporate entity. (20)
- Q. 4.** Write notes on any TWO of the followings: (10 marks each) (20)
- (a) Audit materiality  
(b) Misstatement and Fraud  
(c) Test of Control and Substantive Procedures

**SECTION – II (BUSINESS TAXATION)**

- Q. 5.** Elaborate the following fundamental definitions/terminologies as defined under Section 2 of the Income Tax Ordinance 2001. (20)
- (a) Heads of Income [Section 11]  
(b) Tax Credits [Section 61 to 65]  
(c) Capital Gains [Section 37 to 38]
- Q. 6.** ABC (Pvt) Limited has earned income from business amounting to Rs. 75056000 during the tax year 2019. It also has a plaza situated in Faisalabad. The rent receivable from plaza amounts Rs. 47543000. Moreover, Company claims the following deductions (in Rs.): (20)
- |   |         |
|---|---------|
| 1. Property repair expenses                   | 4324200 |
| 2. Lawyer fee to defend the title of property | 6050000 |
| 3. Insurance premium of the property          | 1477500 |
| 4. Property tax paid                          | 5422300 |
| 5. Tax with held by the tenants @17.5%        | 8320025 |
| 6. Rental income paid to HBFC                 | 3600000 |
| 7. Administrative and collection charges      | 2900000 |
- Required:** Calculate Total income and the Tax payable by the Company for the tax year 2019. The company is a Non-filer.

**SECTION – III (BUSINESS STUDIES AND FINANCE)**

- Q. 7.** How many legal forms of Business Entity exist in Pakistan? Explain the features of Joint Stock Company and its procedure of formation (stages for formation of a Joint Stock Company-both Public limited and Private Limited companies). (20)
- Q. 8.** XYZ Co. has Rs. 400 million in outstanding debt and Rs. 100 million in preferred stock. Its total value is Rs. 800 million. Its cost of debt (rd) is 8%, its cost of preferred stock is (rps) 9%, and its cost of common stock (rcs) is 12%. The firm has recently had numerous depreciation tax shields as well as low earnings. Consequently, it does not pay taxes. (20)
- What is its Weighted Average Cost of Capital (WACC) assuming it will continue to not pay taxes?

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**AGRICULTURE & FORESTRY**

**Roll Number**

<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-A**

- Q. No. 2.** What do you understand by soil fertility? How soil fertility of arable lands can be maintained in good shape? How trees could be helpful in reclaiming water-logged and saline soils? **(20)**
- Q. No. 3.** Discuss the role of integrated nutrient management to sustain soil quality and fertility. **(20)**
- Q. No. 4.** Food security, food safety and climate change are the main challenges at national level. What are various factors associated with these issues and how can we tackle them? **(20)**
- Q. No. 5.** What is the role of cottage industry in improving the rural development? What are the major cottage industries linked to agriculture and livestock? **(20)**

**SECTION-B**

- Q. No. 6.** What is the status and significance of small ruminants in the existing food chain? What are different grazing systems in vogue for small ruminants? How livestock wealth of the country has benefited from existing range and forest resources? **(20)**
- Q. No. 7.** What are the differences amongst agroforests, urban forests, man-made plantations and state forests? Describe the significance of agroforestry in Pakistan. Why Eucalyptus camaldulensis is not recommended for agroforestry? **(20)**
- Q. No. 8.** Which are the major wood based industries in Pakistan? Which tree species are important for these industries? How can we reduce the wood losses during utilization in Pakistan? **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ANTHROPOLOGY**

<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.** What is CRM stands for in anthropology? Justify, how far the cultural knowledge generated through the application of four branches of anthropology is important and contribute in the overall development of the country like Pakistan? (20)
- Q. No. 3.** Anthropologically what various belief and magic systems across the history humans have practiced as a social institution? What belief systems other than the religions are still being practiced in Pakistani society today and why? (20)
- Q. No. 4.** Keeping the Karl Marx (1818-1884) theory of conflict, justify how far the establishment of enormous, gigantic slums or squatter settlements in almost all metropolitan cities are natural or due to discriminatory economic management? Support your arguments with examples. (20)
- Q. No. 5.** One of the dynamic aspects of the culture is "its Adaptive and Maladaptive nature" what it means? In the light of this context, critically discuss the cultural practices which are maladaptive, thus causing underdevelopment. (20)
- Q. No. 6.** What is "Ethnic Homogenization"? Discuss its various mechanisms used today by the states. (20)
- Q. No. 7.** Highlight the major contributions of some of major anthropologists like, Edward Bernard Taylor, Bronislaw Malinowski, Margret Mead and Clifford Geertz. (20)
- Q. No. 8.** Differentiate between "etic" and "emic" approaches used in anthropological research. Highlight various ethnographic techniques used by ethnographers in conducting research in anthropology? (20)

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
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UNDER THE FEDERAL GOVERNMENT

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)** Prove that  $\nabla^2 r^n = n(n+1)r^{n-2}$  (10)

**(b)** Evaluate  $\iint_S \underline{A} \cdot \underline{n} \, ds$  where  $\underline{A} = 18z\underline{i} - 12y\underline{j} + 3y\underline{k}$  and S is that part of the plane  $2x + 3y + 6z = 12$  which is located in the 1<sup>st</sup> octant. (10)

**Q. No. 2.** A particle P of mass m slides down a frictionless inclined plane AB of an angle  $\alpha$  with the horizontal. If it starts from rest at the top A, find (a) the acceleration (b) the velocity and (c) the distance travelled after time t. (20)

**Q. No. 3. (a)** Discuss the motion of a particle moving in a straight line if it starts from rest at a distance 'a' from a point O and moves with an acceleration equal to k times its distance from O. (10)

**(b)** Find radial and transversal components of velocity and acceleration. (10)

**Q. No. 4. (a)** Solve  $\frac{d^2 y}{dx^2} + y = C \sec x$  (10)

**(b)** Solve  $dy + \frac{y - \sin x}{x} dx = 0$  (10)

**Q. No. 5. (a)** Solve the initial value problem (10)

$$x(2+x) \frac{dy}{dx} + 2(1+x)y = 1 + 3x^2, \quad y(-1) = 1$$

**(b)** Find the general solution of the equation (10)

$$(D^3 - 2D + 1)y = 2x^3 - 3x^2 + 4x + 5$$

**Q. No. 6. (a)** Find the Fourier series of f: (10)

$$f(x) = \begin{cases} x, & 0 < x < 1 \\ 0, & 1 < x < 2 \end{cases}$$

**(b)** Solve the boundary value problem  $\frac{\partial^2 u}{\partial x^2} = \frac{1}{k} \frac{\partial u}{\partial t}$  (10)

Satisfying  $u(0,t) = u(1,t) = 0$  and  $u(x,0) = lx - x^2$

**APPLIED MATHEMATICS**

- Q. No. 7. (a)** By using regular Falsi method, solve **(10)**  
 $\text{Log}x - \text{Cos}x = 0$
- (b)** Find the value of  $f(7.5)$  by using Newton Gregory Backward Difference **(10)**  
Interpolation formula.  
X: 5, 6.1, 6.9, 8, 8.6  
 $f(x): 3.49, 4.82, 5.96, 7.5, 8.2$

- Q. No. 8. (a)** Applying the Taylor series method, compute **(10)**  
 $\int_0^x \frac{\text{Sint}}{t} dt$  for  $x = 0 (0.1) 1$

- (b)** Use fourth order RK method to solve **(10)**  
 $\frac{dy}{dx} = t + y ; y(0) = 1$  from  $t = 0$  to  $t = 0.4$  taking  $h = 0.4$

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FOR RECRUITMENT TO POSTS IN BS-17  
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Roll Number

ARABIC

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

- سؤال نمبر 2 : ماذا رأيك عن مكانة أسواق الأدب في المجتمع العربي الجاهلي؟ اكتب عن سوق عكاظ بالتفصيل. (20)
- سؤال نمبر 3 : أثر الحضارة الفارسية في الكتابة في العصر العباسي، اذكر طبقات الكتاب. (20)
- سؤال نمبر 4 : ماهي ميزات الشعر الأندلسي؟ اكتب بشيء من التفصيل خاصة عن شعر ابن زيدون. (20)
- سؤال نمبر 5 : اذكر تعريف المعرب والمبني واكتب أسباب منع المنصرف مع ايراد الأمثلة. (20)
- سؤال نمبر 6 : اشرح الأبيات التالية مع نبذة وجيزة حول ترجمة قائلها والغرض من القصيدة.  
نظمت أسامي الرسل فهي صحيفة في اللوح واسم محمد طغراء  
يا خير من جاء الوجود تحية من المرسلين الى الهدى بك جاءوا  
بيت النبيين الذي لا يلتقي الا الحنائف فيه والحنفاء  
خير الأبوة حازهم لك آدم دون الأنام وأحرزت حواء
- سؤال نمبر 7 : كيف تطوّر الرواية في العصر الحديث؟ اذكرها مع التركيز على روايات نجيب محفوظ. (20)
- سؤال نمبر 8 : اكتب شذرة على الموضوعات التالية: (20)
- ا- ابن زيدون  
ب- "ألف ليلة وليلة"  
ج- الخطب والرسائل  
د- "كنيلة ودمنة"

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
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**UNDER THE FEDERAL GOVERNMENT**  
**BALOCHI**

Roll Number

<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. Answer must be written in respective language except where specified in the question paper. 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**

- (20) سوالنمبر 2- پاکستان ۽ بر اهدا ریاں چه کیے آئی باز دو دمانی ۽ باز زبانی انت۔ پاکستانی زبانی پہریزگ راجی ذمہ واری انت۔ نبشته کن۔
- (20) سوالنمبر 3- ڈیجیٹل معلومداری ۽ دسترس بزاں ڈیجیٹل انفارمیشن ۽ رسنگ ۽ حق، بنی آدم ۽ نوک زمانگیں حقے۔ وتی هیال ۽ در شان کن۔
- (20) سوالنمبر 4- جهانی موسمی مٹی ۽ بدلی ۽ اثرانی گر ۽ دار ۽ در گت ۽ هواریں قومانی گل ۽ کرد ۽ سرا بہ نویسیت۔
- (20) سوالنمبر 5- جہل ۽ داتگیں بلوچی زبان ۽ شاعران چه دو ۽ اڑمی ۽ تیکسی پہناتانی سر انبشہ بہ کن۔
- (i) جوانسال بگٹی (ii) غلام حسین شوہاز
- (iii) عطا شاد
- (20) سوالنمبر 6- بلوچی ۽ گدار ماں (ناول) نویسی ۽ بندت ۽ روم ۽ سرا چشانک بہ دیت۔
- (20) سوالنمبر 7- بلوچی زبان کجام لسانی گر وہ ۽ زبانی؟ اے باروانبشہ پہ کن ایت۔
- (20) سوالنمبر 8- الف۔ جہل ۽ داتگیں بلوچی ٹیکسٹ ۽ انگریزی ۽ رجانک بکن ات۔ (10)

ناول ۽ بن گپ وتی ارزشت ۽ حساب ۽ مزن انت چیا کہ اے بلوچستان ۽ راجد پتر ۽ یک سر جمیں بہرے۔ منیر احمد بادینی ۽ ہمے ناول بلوچ سر ڈگار ۽ یک مزین جیڑہ ۽ ۽ دیما کاریت ۽ مردم پوہ بیت کہ بلوچ سادگ ۽ دل پہمکیں مردم بوتگ انت ہر کس ۽ آہان ۽ رہیہنتگ ۽

رد

داتگ، آہاناں کار مرز کنگ۔ بلوچ ۽ وتی سر پہ دگر ۽ داتگ یاپہ برات کشی ۽ سرا بہیہنتگ۔ اے ناول بلوچ ۽ بلوچستان ۽ تاریخ ۽ یک

ب۔ سر جمیں عکسے کہ آبلوچ ۽ وش، گم، اندوہ، واہگ ۽ مارشاں پیش داریت۔

جہل ۽ داتگیں انگریزی ٹیکسٹ ۽ بلوچی ۽ رجانک بکن ات۔ (10)

The Balochi is a very rich language, full of vocabularies, idioms and idiomatic phrases, lullabies, folk stories, folk songs, and folk literature. It is also full of writers, poets, researchers, and linguists.

Before 19th century, Balochi was an unwritten language. The reason was that there were not any literary personality and linguists in Baloch community till mid-19th century. However, there have been a lot of literary works in Balochi language from 1950s onward. As Sayad Hashmi believed, the mid-19th period and twentieth century were renaissance of Balochi language.

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**UNDER THE FEDERAL GOVERNMENT**

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>		
(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.** Discuss the life cycle of late blight of potato. Discuss its epidemics, disease forecast and control. (20)
- Q. No. 3.** Write a note on sporophyte of *Pinus*. Compare reproductive characteristics of *Pinus* with *Selaginella*. (20)
- Q. No. 4.** Write down the discovery, chemical structure, and role of gibberellins in regulating various physiological processes in plants. (20)
- Q. No. 5.** Describe nitrogen cycles between the abiotic environment and organisms. Briefly describe how human activities have changed global nitrogen budget. (20)
- Q. No. 6.** How Morgan and his students demonstrated that gene was linked in fruit flies? How linkage is related to some events in meiosis? (20)
- Q. No. 7.** Differentiate between plasmid and vector. Briefly explain bacteriophage lambda ( $\lambda$ ) vector. Describe its working and selection process. (20)
- Q. No. 8.** Write down a comprehensive notes on any **TWO** of the followings: (10 each) (20)
- (a) The four components of taxonomy.
  - (b) Distribution of gymnosperms in Pakistan.
  - (c) Differences in vascular system of stem of monocot and dicot plants.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

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-A**

- Q. No. 2.** What were merits and demerits of Whig oligarchy? Critically examine the causes of the downfall of Whig ascendancy. (20)
- Q. No. 3.** Estimate the influence of French Revolution on English Society and Political thought. (20)
- Q. No. 4.** Give a history of parliamentary Reforms between 1832. A.D to 1928 A.D. Also critically examine how England became a politically democratic country? (20)
- Q. No. 5.** "Peel was the most liberal of conservatives and most conservative of liberals". Examine the statement critically. (20)

**SECTION-B**

- Q. No. 6.** What do you know about the Middle East and Suez Canal crisis? Also explain why did England withdraw from Palestine and Suez Canal? Discuss. (20)
- Q. No. 7.** What do you know about the League of Nations? Explain the work of the league. What were the causes of the failure of the League of Nations? (20)
- Q. No. 8.** What were the causes of Falkland War? In what way it has affected the Britain's relationship with Latin American countries? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**BUSINESS ADMINISTRATION**

**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 that Management is evolutionary process. Substantiate your answer through commenting on contribution made by Fredrick Taylor, Max Weber and Elton Mayo. (20)
- Q. No. 3.** What are the key elements involved in designing organizational structure? (20)
- Q. No. 4.** What is the importance of Employees Performance Appraisal? Discuss the problems faced in Employee Appraisal. (20)
- Q. No. 5.** Describe how would you plan Integrated Communication Process for launching a product. (20)
- Q. No. 6.** What is Bluewhip effect and how does it relate to lack of coordination in the supply chain. (20)
- Q. No. 7.** Explain the following analytical tools of Financial Management: (05 marks each) (20)  
(a) Time series analysis versus cross sectional analysis.  
(b) Horizontal analysis versus vertical analysis.  
(c) Liquidity ratios versus debt ratios.  
(d) Turnover ratios versus profitability ratios.
- Q. No. 8.** Tiger Corporation is considering to invest in a given project. After tax cash flows of the projects are given below: (20)

Years	Project (\$)
Initial Cash Flow	150,000
1	50,000
2	56,000
3	64,000
4	68,000
5	72,000

Determine Payback Period, Net Present Value and Profitability Index using 13% as required rate of return.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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) Write two equations of state for real gases and compare them highlighting their important features. (10)
- (b) (i) Explain Heisenberg's uncertainty principle. (05)  
(ii) Discuss Born's interpretation of wave function. (05) (10) (20)
- Q. 3.** (a) Explain the Kohlrausch law. Why do the real solution should deviate from the law? (10)
- (b) Compare Langmuir's and Freundlich's adsorption isotherms. (10) (20)
- Q. 4.** (a) Explain the Arrhenius equation. Also highlight its applications and limitations. (10)
- (b) Explain various acid-base theories. What are hard and soft acids and bases? (10) (20)
- Q. 5.** (a) Make a comparison of column chromatography and thin layer chromatography (TLC) by highlighting merits and demerits of the both. (10)
- (b) Explain Werner's theory of coordination complexes. Give examples from d-block transition metals. (10) (20)
- Q. 6.** (a) Give a comprehensive classification of various chromatographic techniques. Also mention potential application of each. (10)
- (b) (i) What is Hydrogen bonding. Explain. (05)  
(ii) Describe Hybridization in p-block elements. (05) (10) (20)
- Q. 7.** (a) Explain crystal Field Theory (CFT) for d-block elements. (10)
- (b) Write an extensive essay on types of chemical bonding giving examples. (10) (20)
- Q. 8.** Write short notes on the following: (5 each) (20)
- (i) Liquid junction potential  
(ii) Potentiometry  
(iii) Collision theory of Chemical reactions.  
(iv) Transition state theory.

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

**CHEMISTRY, 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.

**PART-II**

- Q.No. 2.** Explain the difference between: (5 each) (20)
- Inductive and Field effects
  - Inductive and Resonance effects
  - Localized and Delocalized bonding
  - Conjugation and Hyperconjugation
- Q.No. 3. (a)** “The resonance effect has an appreciable influence on physical characteristics and the chemical reactivity of organic molecules”. Elaborate the statement with the help of examples. (10)
- (b)** Outline the EAS mechanism (Electrophilic Aromatic Substitution) through which aromatic compounds react with electrophiles. (5)
- (c)** Discuss factors which favour an elimination reaction occurring over a substitution reaction. (5) (20)
- Q.No. 4.** How would you carry out the following conversions? Account for your answer with mechanism in each case. (4 each) (20)
- $(\text{CH}_3)_3\text{CCH}=\text{CH}_2 \rightarrow (\text{CH}_3)_2\text{C}(\text{OH})\text{CH}(\text{CH}_3)_2$
  - $(\text{CH}_3)_3\text{CCH}=\text{CH}_2 \rightarrow (\text{CH}_3)_3\text{CCH}(\text{OH})\text{CH}_3$
  - $(\text{CH}_3)_3\text{CCH}=\text{CH}_2 \rightarrow (\text{CH}_3)_3\text{CCH}_2\text{CH}_2\text{OH}$
  - $(\text{CH}_3)_3\text{CC}\equiv\text{CH} \rightarrow (\text{CH}_3)_3\text{CCOCH}_3$
  - $(\text{CH}_3)_3\text{CC}\equiv\text{CH} \rightarrow (\text{CH}_3)_3\text{CCH}_2\text{CHO}$
- Q.No. 5.** The following reactions can be used for the preparation of alkanes or cycloalkanes. Elaborate them with the help of reaction mechanisms. (5 each) (20)
- Corey House reaction
  - Wurtz reaction
  - Kolbe reaction
  - Simmons - Smith Reaction
- Q.No. 6.** How would you convert cyclohexanone into the following compounds? Write down the mechanisms of the reactions. (4 each) (20)
- Caprolactone
  - Caprolactam
  - Cycloheptanone
  - Cyclohexa-1,2-dione
  - Cyclohexane
- Q.No. 7. (a)** How can a racemic mixture be separated into its components? Describe different methods. (16)
- (b)** (-)-Lactic acid has a specific rotation of  $-3.8^\circ$ . What will be the specific rotation of a solution containing 7.5g of (-)-lactic acid and 2.5 g of (+)-lactic acid? (4) (20)
- Q.No. 8. (a)** Starch, glycogen and cellulose are polymers of glucose. How will you differentiate among these three both structurally and functionally. (12)
- (b)** Explain precisely the following terms. (8) (20)
- Glycolysis
  - Glycogenolysis
  - Glycogenesis
  - gluconeogenesis



FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION - 2020  
FOR RECRUITMENT TO POSTS IN BS-17  
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. Describe the need for harmony among followers of different religions in the modern times and explain the ten most common benefits of studying religions. (20)
- Q. No. 3. The third section of Old Testament is called Prophets, it consists of 12 books. What does major and minor prophets mean in Old Testament? Write down their names. (20)
- Q. No. 4. Write down ten commandments God gave to Moses on Mount Sinai and evaluate their significance in the modern day ethics. (20)
- Q. No. 5. Explain the noble eight-fold path for enlightenment of life offered by Buddha. (20)
- Q. No. 6. Describe the themes and teachings of Shrimad Bhagwat Gita. (20)
- Q. No. 7. Describe the rights and status of non-Muslim minorities as reflected from Medieval Islamic State of Medina. (20)
- Q. No. 8. Do a comparative analysis between the Jewish and Islamic principles of faith and worship. (20)

**URDU VERSION**

- سوال نمبر 2: عصر حاضر میں مختلف مذاہب کے پیروکاروں کے مابین ہم آہنگی کی ضرورت بیان کریں اور مطالعہ مذاہب کے دس عمومی فوائد بیان کریں۔ (20)
- سوال نمبر 3: عہد نامہ قدیم کے تیسرے حصے کو انبیاء کہتے ہیں، یہ 12 کتابوں پر مشتمل ہے۔ عہد نامہ قدیم میں میجر اور مائزر نبیوں کا کیا مطلب ہے؟ ان کے نام لکھیں۔ (20)
- سوال نمبر 4: خدانے حضرت موسیٰ علیہ السلام کو کوہ سینا پر دس احکامات عطا فرمائے جدید دور کی اخلاقیات میں ان کی اہمیت کا جائزہ لیں۔ (20)
- سوال نمبر 5: بدھ کی پیش کردہ زندگی کی روشن خیالی کے لئے آٹھ عظیم الشان راہ کی وضاحت کریں۔ (20)
- سوال نمبر 6: شریعہ بھگوت گیتا کے موضوعات اور تعلیمات کو بیان کریں۔ (20)
- سوال نمبر 7: قرون وسطیٰ کے اسلامی ریاست مدینہ سے ظاہر ہونے والے غیر مسلم اقلیتوں کے حقوق اور حیثیت کی وضاحت کریں۔ (20)
- سوال نمبر 8: عقیدہ و عبادت کے یہودی اور اسلامی اصولوں کے مابین تقابلی تجزیہ کریں۔ (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**COMPUTER SCIENCE, PAPER-II**

Roll Number

<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>
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- 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) 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.

**PART – II**  
**SECTION – A**

- Q. No.2.** (a) Explain Moore's law. List high computing requirements in contemporary computing. (7)  
(b) List and briefly define two approaches to dealing with multiple interrupts. (6)  
(c) What is instruction-level parallelism? What are some typical distinguishing characteristics of RISC organization? (7)
- Q. No.3.** (a) What is the kernel of an operating system? Explain the difference between a monolithic and microkernel. (7)  
(b) What is the difference between simple and virtual memory paging? Also explain the purpose of translation lookaside buffer. (6)  
(c) Why do we have deadlock in the multiprocessing environment? Explain different techniques for dealing with deadlocks. (7)
- Q. No.4.** (a) Compare IPv4 and IPv6 headers. Explain the use of NAT technology to overcome IPv4 scarcity. (8)  
(b) Find the maximum number of valid subnets and usable hosts per subnet that you can get from the network 172.23.0.0/23. (6)  
(c) List and briefly define any THREE file organization techniques. Also explain basic Linux file system security. (6)
- Q. No.5.** (a) What is signal encoding? Explain different encoding techniques used in data communication. (8)  
(b) Explain the functions and needs of ARP and RARP protocols in computer networks. (5)  
(c) Explain multiplexing and demultiplexing at the transport layer. Explain in the context of TCP/IP protocol. (7)

**SECTION – B**

- Q. No.6.** (a) What is the purpose of a join in SQL? Explain inner, left, right and full join with the help of examples. (8)  
(b) Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted. (7)  
(c) Explain Two-phase locking (2PL) as a concurrency control mechanism in the database systems. (5)
- Q. No.7.** (a) What is Histogram equalization? Explain the process and discuss its uses. (6)  
(b) Explain types of color models. Also discuss the most common hardware oriented color models in detail. (8)  
(c) What is translation and scaling? Find the number of bits required to store a 256x256 image with 32 gray levels. (6)
- Q. No.8.** (a) "Web engineering is more challenging than traditional software engineering". Argue for or against. (7)  
(b) Briefly discuss the role of validation and verification in requirement engineering. (6)  
(c) Explain functional and non-functional requirements in the context of a web application development. (7)



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**COMPUTER SCIENCE, PAPER-I**

Roll Number

<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:</b> (i) <b>Part-II</b> is to be attempted on the separate <b>Answer Book</b> . (ii) Attempt <b>ONLY FOUR</b> questions from <b>PART-II</b> , by selecting <b>TWO</b> questions from <b>EACH SECTION</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**  
**SECTION-A**

- Q. No. 2.** (a) Write a C/C++ program which implements binary logical 'AND', 'OR' and 'NOT' gates. (8)  
The program takes binary numbers and desired logical gate as inputs and outputs the desired output of the gate.
- (b) Write a C/C++ program which inputs a number from a user and prints Fibonacci series up to the number. (7)
- (c) Explain the concept of abstract class with an example (5)
- Q. No. 3.** (a) Write standard ports for following services HTTP, FTP, SMTP, HTTPS, DNS. (4)
- (b) Design an appropriate interface for citizen portal mobile application. The interface should contain different features which are part of the portal application. The Interface may contain different screens to support these features. (8)
- (c) If you are transferring a file over the Internet, would you prefer TCP or UDP as the underlying protocol. Explain (4)
- (d) If you are transferring live audio in real-time over the Internet, would you prefer TCP or UDP as the underlying protocol. Explain. (4)
- Q. No. 4.** (a) Write a program to perform mathematical operations of addition, subtraction and multiplication on complex numbers. Each operation should be supported by a separate method. (8)
- (b) How object encapsulation is useful? Explain. (4)
- (c) Write a program to convert numbers into words. For instance, if the user types 123, the program should give output one hundred and twenty three. The program should continue functioning until the user types quit. (4)
- Q. No. 5.** A university maintains records for students, Faculty, and academic record. Following three classes are part of the system  
Student (ID, Name, Age, Address, Contact, Program, CGPA)  
Teachers (ID, Name, Age, Address, Highest Degree, Subjects, Salary)  
Courses (Semester, Course Code, Student ID, Teacher ID, Grade). All the data is stored in files
- (a) Draw a class diagram to represent the three classes and their relationships (5)
- (b) Write C++ programs to compute following: (15)
- i. Add a student
  - ii. Add a course
  - iii. Find a student with respect to CGPA
  - iv. Add a Teacher
  - v. Update a student

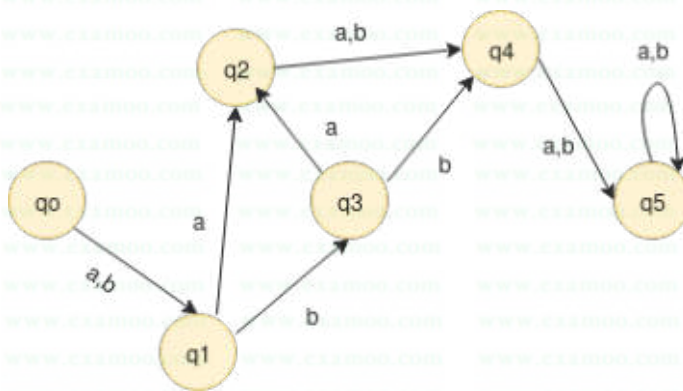
**SECTION-B**

**Q. No. 6.** John rides a Van service from new square (S) to the city harbor (T). The van service charges Rs 10 per Km. There are numerous routes between the two points.

- (a) In order to rip off his customers, John always wanted to use the longest path. To find the longest path, John evaluates all the possible paths and selects the longest path. Write an algorithm to select the longest path using this approach. (7)
- (b) Compute the complexity of this algorithm and determine that whether it is in P, NP, or NP-complete. (3)
- (c) Write an algorithm to find a minimum distance between 'S' and 'T'. (7)
- (d) Derive the complexity of this algorithm. (3)

**Q. No. 7.** (a) How many tokens are there in in this C code : (5)  
`printf("k = %d, &k = %x", k, &k);`

(b) Create State Transition Table from the following graph (5)

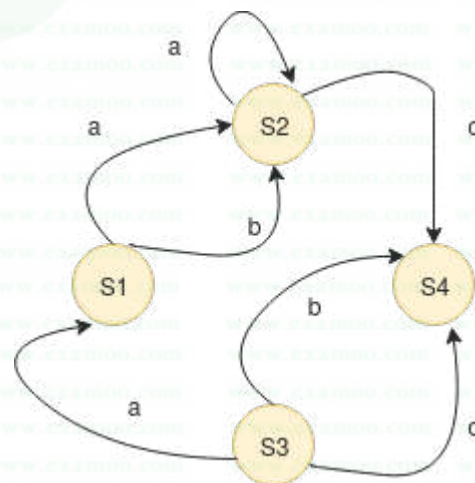


(c) Draw Finite State Automata which accepts following input. (4)

- i. JIM
- ii. JMI
- iii. JJIM
- iv. JJMMII

(d) Determine which of these inputs are valid for the FSM shown below: (6)

- i. aaaaa
- ii. ababa
- iii. abcabc
- iv. abccba
- v. acbd
- vi. acbeded



**Q. No. 8.** (a) Is P = NP? Comment (4)

- (b) Suppose you are representing a social network (such as facebook) as a graph. Devise an algorithm through which you can determine friends of friends. (7)
- (c) Explain the complexity of this algorithm (5)
- (d) Optimal problems are generally NP hard problems. Is it appropriate to use heuristics based approaches? (4)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**CONSTITUTIONAL LAW**

**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. 2.** Discuss in detail the writ jurisdiction of High Courts and its limitations under Article 199 of the Constitution of Islamic Republic of Pakistan, 1973. **(20)**
- Q. 3.** Critically examine the Salient features of the Government of India Act,1935 and its short comings. **(20)**
- Q. 4.** The “Rule of Law” is one of the most fundamental feature of British Constitution. Do you agree with statement? Explain the concept in light of Dicey’s Exposition on Rule of Law and its present day implications in Modern Era. **(20)**
- Q. 5.** “Judiciary review” is one of the most important feature of US constitution. Comment. Also explain the concept with special reference to land mark judgment *Marbury vs Madison* [5 U.S. (1 Cranch) 137 (1803)]. **(20)**
- Q. 6.** Enumerate the Constitutional grounds upon which the President may proclaim a state of Emergency in India. Give examples from the Indian experience. **(20)**
- Q. 7.** How is Modern Russia and its constitutional structure different from the USSR’ constitutional structure? Draw a comparative analysis with cogent reasons. **(20)**
- Q. 8.** Explain the basic human rights incorporated in the German Constitution. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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>
<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 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 your position on the nature vs nurture debate in criminology? **(20)**
- Q. No. 3.** Define and explain the following concepts: (05 marks each) **(20)**
- (a) Left realism and right realism
  - (b) Phrenology and Physiognomy
  - (c) Corporal punishment and capital punishment
  - (d) Sociology of Law, Criminal Etiology and Penology

**SECTION-II**

- Q. No. 4.** Write a comprehensive note on the risk and protective factors of juvenile delinquency in Pakistan. **(20)**
- Q. No. 5.** What is recidivism? What kind of institutional modern strategies could be used for the reintegration of the criminals in Pakistan? **(20)**

**SECTION-III**

- Q. No. 6.** Define criminal investigation and its principles. Highlight with examples the importance of modern techniques used for crime detection in Pakistan. **(20)**
- Q. No. 7.** The International Criminal Police Organization- ICPO, INTERPOL was founded in 1914 with the founding principle to coordinate efforts relating to international police cooperation. How do you see the role of INTERPOL for reducing money laundering with special reference to Pakistan? **(20)**

**SECTION-IV**

- Q. No. 8.** Explain the institutional corrections and alternative community corrections strategies in detail. Support your answer with examples where appropriate. **(20)**
- Q. No. 9.** Keeping in view the social learning perspective in criminology, discuss how terrorists use internet as a tool to reinforce their ideology among youth in Pakistan. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ECONOMICS, 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>		

**PART-II**

- Q. No. 2.** Critically examine the marginal productivity theory of income distribution. **(20)**
- Q. No. 3.** Define Balance of Payment (BOP) and identify and explain its major components with reference to any one year's BOP of Pakistan. **(20)**
- Q. No. 4.** List the main functions of money. Define and discuss the quantity theory of money. **(20)**
- Q. No. 5.** Discuss importance of human capital investment for the economic development of Pakistan. **(20)**
- Q. No. 6.** Pakistan's Tax to GDP ratio is among the lowest in the world and its share of indirect taxes in the total tax receipts is much higher. Describe and discuss reasons behind these phenomena and suggest measures to improve tax to GDP ratio in Pakistan. **(20)**
- Q. No. 7.** Use the IS-LM model to discuss the neutral effect of monetary expansion in the case of an open economy. Distinguish between Keynesian and classical views on neutrality of money. **(20)**
- Q. No. 8.** Write a short note on any **TWO** of the following:- **(10 each) (20)**
- (a)** Phillips Curve and NAIRU
  - (b)** Laffer Curve
  - (c)** Marshallian and Hicksian Demand

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ECONOMICS, 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. 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.** Briefly explain theoretical justification for major sources of agriculture growth and analyze which of them are valid for Pakistan. Also state why green revolution did not continue to play its role in agriculture (20)
- Q. No. 3.** Pakistan has persistent trade deficit. Analyze this pattern and sources. Based upon your analysis, propose relevant and applicable policy for its improvement. (20)
- Q. No. 4.** Point out three major economic issues pertaining to the failure of fiscal policy to achieve sustainable economic growth in Pakistan. Propose appropriate measures to solve these issues. (20)
- Q. No. 5.** Point out major sources of inflation in Pakistan. Justify these sources empirically and discuss how this issue was managed in the last three decades. (20)
- Q. No. 6.** Briefly explain and critically evaluate the role of public and private investment in Pakistan. Also point out their role in achieving sustainable economic growth of Pakistan. (20)
- Q. No. 7.** Why internationally developed poverty lines may not be relevant to Pakistan. State poverty lines relevant to Pakistan and discuss its justifications and poverty trends in Pakistan. Also propose applicable policy measures to solve the issue. (20)
- Q. No. 8.** Theoretically justify the role of public debt, either to play positive or negative. Analyze its role in Pakistan. Also discuss steps taken to solve this problem. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ENGLISH LITERATURE**

<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.** Enlist and explain the bad habits of writing George Orwell identifies in his essay "Politics and the English Language". What solutions does he suggest for getting rid of these bad habits? **(20)**
- Q. No. 3.** How successfully do you think Chesterton manages to employ the technique of narrative within a narrative in his short story A Somewhat Improbable Story? **(20)**
- Q. No. 4.** T.S Eliot appreciates John Donne for his "unified sensibility". Does Eliot's own poetry also depict the same quality in poems The Wasteland and The Love Song of J. Alfred Prufrock? **(20)**
- Q. No. 5.** Discuss Mick's exploitation of language for accosting Davies in Harold Pinter's play the Caretaker. **(20)**
- Q. No. 6.** Does Hester gradually gain wisdom through her constant suffering in the novel 'A Scarlet Letter'? If so, how? Explain. **(20)**
- Q. No. 7.** Is Post-colonial Studies "the most flourishing sector of cultural studies today"? Justify your arguments with the help of appropriate examples. **(20)**
- Q. No. 8.** How far do you think Psychoanalysis is appropriate for understanding literary texts? Explain your ideas. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**ENVIRONMENTAL SCIENCE**

**Roll Number**

<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.** (a) Write the main principles of Rio Summit 1992. (10)  
(b) Discuss the dose response relationship in Environmental Toxicology. (10) **(20)**
- Q. No. 3.** (a) Write the physico chemical parameters of waste water and also explain waste water treatment technologies. (10)  
(b) Discuss the major outcomes of Clean Development Mechanisms (CDM). (10) **(20)**
- Q. No. 4.** (a) Discuss in detail the Hospital Waste Management codes of Practice. (10)  
(b) Enlist the conventions and treaties passed in Agenda 21. (10) **(20)**
- Q. No. 5.** (a) Define and explain the Eutrophication of water body. (10)  
(b) What are technological approaches to Environmental management? (10) **(20)**
- Q. No. 6.** (a) What are main steps of conduction Environmental Impact Assessment (EIA)? (10)  
(b) Discusses briefly noise pollution. (10) **(20)**
- Q. No. 7.** (a) What is green revolution? Give a brief account of green revolution in Pakistan. (10)  
(b) Define Environmental Economics and explain briefly the interrelationship between Environment and Economics. (10) **(20)**
- Q. No. 8.** (a) Discuss the solid waste disposal technique. (10)  
(b) Write in detail the effect of climate change on natural and societal systems. (10) **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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>
<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.** “Prince Metternich is regarded as the incarnation of the restoration and reaction”. (20)  
Why?
- Q. No. 3.** ‘Italy is a geographical expression Politically speaking there was no Italy’ Comment. (20)
- Q. No. 4.** Write down the results of Franco-Prussian war (1870-71). (20)
- Q. No. 5.** ‘The Eastern Question entered upon a new and startling phase from 1908-1914’. (20)  
Discuss.

**SECTION-II**

- Q. No. 6.** Winston Churchill criticised the appeasement “a total and un-mitigated defeat”. (20)  
Discuss.
- Q. No. 7.** British entry in European Economic community was delayed until 1973. Why? Give (20)  
reasons.
- Q. No. 8.** Write notes on any TWO of the following: (10 marks each) (20)
- (a) Gorbachev
  - (b) NATO
  - (c) Socialism

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**GENDER STUDIES**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)      MAXIMUM MARKS = 20</b> <b>PART-II                      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.** Gender has multiple meanings. How do you deconstruct the word “GENDER”? **(20)**
- Q. No. 3.** How the colonial era influenced the status of women in subcontinent? **(20)**
- Q. No. 4.** 'Language is gendered', what does this imply? Explain with examples. **(20)**
- Q. No. 5.** Women need to be in leadership positions to pull more women into leadership roles. Is this suggestion that women need to “pull each other up” a useful one, or is that inappropriate preferential treatment. **(20)**
- Q. No. 6.** “For realizing, in letter and spirit, the ideals of a democratic welfare state, it is necessary to institute a system which fully guarantees human rights, generates conducive environment for the pragmatic use and beneficial enjoyment of human rights and provides operative safeguards and expeditious remedy against any violation of human rights”. Critically evaluate the statement with special reference to Pakistan. **(20)**
- Q. No. 7.** Comment on the power and control relationship in gender based violence. **(20)**
- Q. No. 8.** Discuss the background of the two Oscar winning documentaries by Sharmeen Obiod. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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.** Enlist the major fluvial landforms and explain how they are produced. Also bring out their impact on human activities. (20)
- Q. No. 3.** Point out the specific conditions under which karst topography is developed and also explicate various karst features. (20)
- Q. No. 4.** Describe the stratification of atmosphere on the basis of its thermal characteristics. Also discuss why troposphere is the most significant part of atmosphere with regard to various human activities. (20)
- Q. No. 5.** Examine the temperature and salinity distribution of world oceans along with their impact on marine ecosystem. (20)

**SECTION – II**

- Q. No. 6.** Discuss the role of raw materials, labour wages and transport cost in determining the location of industries with special reference to Alfred Weber's theory. (20)
- Q. No. 7.** Critically examine the application of concentric zone model for the study of urban land use patterns. (20)
- Q. No. 8.** Write short notes on any TWO of the following: (10 each) (20)
- (a) Major attributes of the states
- (b) Demographic transition
- (c) Components of population change

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

**Roll Number**

**GEOLOGY**

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

**PART-I (MCQS) MAXIMUM MARKS = 20**  
**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**. **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.** Differentiate between weathering, erosion and transportation. Elaborate the various agents and types of weathering. (20)
- Q. No. 3.** What are lithostratigraphic and chronostratigraphic unit? Discuss the various laws of stratigraphy. (20)
- Q. No. 4.** Explain isomorphism and polymorphism through examples. Give a detailed account of classification of silicate minerals. (20)
- Q. No. 5.** Differentiate between lineation and foliation. Discuss various structural controls on the mechanical properties of materials. (20)

**SECTION-II**

- Q. No. 6.** Differentiate between eustatic and relative sea level curve. Discuss the relationship between eustacy, accommodation space and sedimentation. (20)
- Q. No. 7.** Differentiate between hydrocarbon source and reservoir rocks. Elaborate the various trapping mechanisms of hydrocarbons. (20)
- Q. No. 8.** Write short notes on any TWO of the following: (10 each) (20)
- (a) Coal rank and coal series.
  - (b) Geological controls on the selection of mega dam sites.
  - (c) Occurrences of Radioactive deposits in Pakistan.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**GOVERNANCE AND 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.		
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**PART-II**

- Q. No. 2.** Kerala's (India) governing model presents a theory of decentralized development. Critically evaluate the strengths and weaknesses of this experience in Kerala. What is the feasibility for its adoption in your province in Pakistan? **(20)**
- Q. No. 3.** What are the similarities and differences of thoughts on Bureaucracy by Woodrow Wilson and Max Weber? Draw out a link between their thoughts and the political system that both had experienced in their countries? **(20)**
- Q. No. 4.** What are the roles of bureaucracy in the various stages of public policy process from problem identification/definition to policy change/termination? **(20)**
- Q. No. 5.** Describe the evolution of the paradigm of governance from Wilsonian concept of the dichotomy of politics and administration to the contemporary fusion of both.
- Q. No. 6.** (a) What are the commonalities and difference in the tenets of Good Governance between World Bank, Asian Development Bank and Department for International Development (DFID)? **(12)**
- (b) The concept of good governance is ubiquitous in democratic states. What is the role of the World Bank in the promotion of this concept? **(8)**
- Q. No. 7.** (a) In the Rational Choice theory, how is the institution of the bureaucracy described? **(12)**
- (b) What are the lessons that can be drawn from the Rational Choice theory for reforming Pakistani bureaucracy? **(8)**
- Q. No. 8.** Choose any of your favorite policy sector to elucidate following components of policy analysis process; **(20)**  
**(5 marks each)**
- (a) Constructing policy alternatives
- (b) Choosing evaluative criteria
- (c) Assessing the alternatives
- (d) Drawing conclusions

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**HISTORY OF PAKISTAN & INDIA**

**Roll Number**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)      MAXIMUM MARKS = 20</b> <b>PART-II                      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 in detail the role of Persian language in influencing cultures in pre-colonial India. **(20)**
- Q. No. 3.** How did the institution of Sufi Shrines influence socio-cultural and economic structures in Mughal India? **(20)**
- Q. No. 4.** In Sir Syed Ahmad Khan's struggle for uplifting the conditions of the Muslims, we see a conflict between Indian and European traditions and knowledge systems. Explain. **(20)**
- Q. No. 5.** How did colonial legacies influence Pakistan's political and social structures in the 1950s and 1960s? **(20)**
- Q. No. 6.** While considering the Pakistan's current financial crisis, how would you compare the economic policies of General Ayub Khan with Z.A. Bhutto? **(20)**
- Q. No. 7.** Explain the propaganda strategies of Pakistani and Indian states and the separatist Bengali leadership during the crisis of East Pakistan. **(20)**
- Q. No. 8.** Compare the political strategies used by Pakistan Muslim League-N, Pakistan People's Party Parliamentary and Pakistan Tahreek-e-Insaaf since 2008, to establish their governments. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**HISTORY OF USA**

<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.** Amongst the Congress, the Judiciary, and the Executive branches of the United States Government, which one of the government branches is much more powerful and why? Elaborate through the prism of the US Separation of Powers and Checks and Balances systems. **(20)**
- Q. No. 3.** Even though the Great Britain and the United States of America fought a Revolutionary War in the 1770s and the War of 1812, how did the two powers come closer in the later parts of the nineteenth and the twentieth centuries? Elaborate. **(20)**
- Q. No. 4.** How did the American-Spanish War in 1898 raise the United States status as one of the leading world powers? **(20)**
- Q. No. 5.** After the end of WWI (1914-1918), why the US President Woodrow Wilson failed to convince the US Congress to become part of the League of the Nations despite his longstanding efforts for the creation of this International Organization through the prism of his Fourteen Points? **(20)**
- Q. No. 6.** In the wake of the WWII (1939-1945), two major powers the US and the Soviet Union emerged constituting a bipolar system. Elaborate conceptually if the bipolar world remained more peaceful and stable than the multi-polar world in the pre-World Wars era. **(20)**
- Q. No. 7.** Since the creation of the North Atlantic Treaty Organization (NATO) in 1949, why the United States desires to further expand NATO? Elaborate opportunities and challenges for the expansion of the NATO. **(20)**
- Q. No. 8.** The tectonic plates of international politics seem to shift away from Europe to the Asia-Pacific region, which the U.S. President Barak Obama had termed as a “pivot to Asia” or “rebalancing” strategy. In the light of changing geo-strategic environment, how could you see the rise of China vis-à-vis the U.S. geo-strategic interests in the Asia-Pacific region? **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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>		
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<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART – II**

- Q. No. 2.** "The rules regarding the persistent and subsequent objector reveal a critical weakness at the heart of international law. If a state can avoid being bound by any rule of customary international law, including a rule that achieves jus cogens standing, then international law cannot really be described as 'law'." (20)  
Critically examine the above statement, using examples from case law and state practice.
- Q. No. 3.** 'The way in which a State approaches international law will depend on whether it adheres to the monistic or dualistic school of thought.' Examine this quotation with examples. (20)
- Q. No. 4.** How Extradition has been defined in International Law? What is meant by non-extradition of 'political offenders'? What are the conditions necessary for extradition? (20)
- Q. No. 5.** Blockade of the Ports or Coasts of a State by the Armed Forces of another State is an example of Aggressive Act. Explain the Laws relating to Blockade under International Humanitarian Law. (20)
- Q. No. 6.** Does current international law concerning immunity suggest that heads of state and former heads of state responsible for serious human rights violations would be well advised to remain at home? (20)
- Q. No. 7.** Critically appraise the position of international law relating to self-determination and secession in the light of the International Court of Justice's advisory opinion concerning the status of Kosovo. (20)
- Q. No. 8.** Write short notes on following (10 each) (20)  
(a) Belligerent occupation in public international law  
(b) Difference between state immunity and diplomatic immunity

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**INTERNATIONAL RELATIONS, PAPER-I**

**Roll Number**

<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.** How the Neo-Realist and Constructivist approaches differ over the study of state behavior in the contemporary international politics? **(20)**
- Q. No. 3.** Describe the concept of Pre-Emptive Self-Defense in the context of International Law and critically evaluate the legitimacy of US use of force against Iraq. **(20)**
- Q. No. 4.** What do you understand by International Political Economy? How it promotes economic dependency in the developing states? **(20)**
- Q. No. 5.** Define the concept of Strategic Culture and highlight the major determinants of Pakistan's Strategic Culture. **(20)**
- Q. No. 6.** Explain the concept of Economic Liberalism and relate its core interests with the concept of Neo-imperialism. **(20)**
- Q. No. 7.** Critically evaluate the US Indo-Pacific policy. Do you believe the current US strategies are aimed at containing growing economic super power China? **(20)**
- Q. No. 8.** Describe the geo-strategic importance of Indian Ocean and highlight its impacts on Pakistan's Maritime security. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**INTERNATIONAL RELATIONS, PAPER-II**

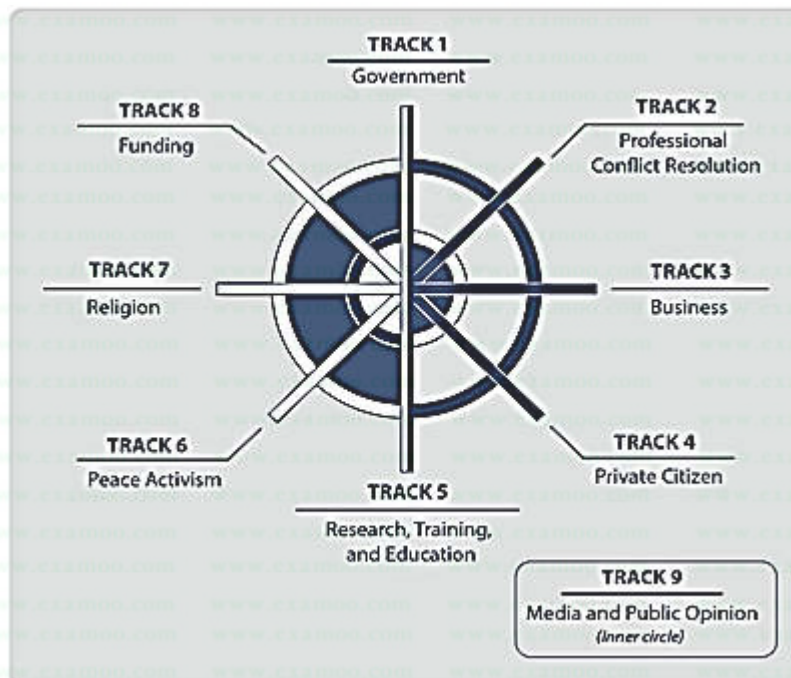
Roll Number

<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>
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- 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.** What are the multidimensional and multifaceted impacts of climate change on multiple dimensions of security? Identify each, discuss and analyze under the theoretical framework of Security and International Relations. (20)
- Q. No. 3.** What are the four essentials of Resource Management? When does a resource become an element of power “OR” a resource curse? Discuss the Reko-Diq case in this context. (20)
- Q. No. 4.** Why is it difficult to define terrorism? Elaborate upon the following: (20)  
(a) Feminization of terrorism (b) Criminalization of terrorism  
(c) Commercialization of terrorism (d) State-terrorism
- Q. No. 5.** Differentiate between Washington consensus and Beijing consensus. Is Beijing consensus a challenge to the Washington consensus? (20)
- Q. No. 6.** Comment in detail on mechanism of conflict resolution between Pakistan and Afghanistan and on Durand line issue. (20)
- Q. No. 7.** Discuss Russia’s return to South Asia and United States’ Indo-Pacific Strategy. (20)
- Q. No. 8.** Explain the following diagram in the light of multi-track diplomacy. Which is the most important track of diplomacy and why? (20)



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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**ISLAMIC HISTORY & CULTURE**

**Roll Number**

<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.** Explain the political and religious importance of treaty of Medina. (20)
- Q. No. 3.** Shed light on the knowledge and bravery of Hazrat Ali (R.A) in battle fields. (20)
- Q. No. 4.** Explain the major reasons of the fall of Ummayed Dynasty in 132 .A.H. (20)
- Q. No. 5.** Explain baitulmal management during the period of Caliph Umar Ibn Abdul Aziz. Discuss its impacts. (20)

**SECTION-II**

- Q. No. 6.** Highlight the impacts of the Crusades on Muslims and Christens. (20)
- Q. No. 7.** Discuss in detail contributions of Muslims to natural sciences in Abbasid period. (20)
- Q. No. 8.** Explain the causes and effects of emerging Muslim's trends towards Modernism. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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.** After defining centrifugal and centripetal effects of mass communication, critically discuss how the Pakistani media helped or hindered the formation of diverse groups and identities based on subculture, opinion, social experience, and social action? **(20)**
- Q. No. 3.** What is the conflict or trade-off between national sovereignty and the free flow of information? **(20)**
- Q. No. 4.** Describe how new technologies (such as video streaming and 3-D TV) will affect the television industry? **(20)**
- Q. No. 5.** Does the Pakistani soap empower women in any ways, or does it provide another means of ideological containment? **(20)**
- Q. No. 6.** “The public criticism and perceived lack of credibility does not appear to be affecting the operations of the big media groups and the careers of top anchors.” If we consider this statement true, then how would it affect the future of journalism in Pakistan? **(20)**
- Q. No. 7.** What is development journalism and how is it different from development support communication? **(20)**
- Q. No. 8.** What are the salient features of Prevention of Electronic Crimes Act (PECA)? How it can affect the freedom of expression on digital platforms? **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

**Roll Number**

**LAW**

<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.** Explain the territorial and pecuniary jurisdiction of civil courts within the scheme as contained in the Civil Courts Ordinance, 1962. **(20)**
- Q. No. 3.** In what circumstances the court may remove arbitrators or umpires? **(20)**
- Q. No. 4.** What is a leading question? Who can ask such questions? Can a party put leading question to his own witnesses? If so, when? **(20)**
- Q. No. 5.** Compare and contrast the law on fabricating or giving false evidence with that on giving information to cause injury or annoyance to someone. **(20)**
- Q. No. 6.** Define vicarious liability. What are its essential ingredients? What is the prime difference between constructive liability and abetment? **(20)**
- Q. No. 7.** General principle is that evidence is to be taken in the presence of accused. Exceptions to this rule and circumstances under which these are applicable. Discuss. **(20)**
- Q. No. 8.** Discuss the particulars containing a plaint and the grounds on which it can be rejected. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**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.** Plaintiff offered to purchase a lodge owned by defendants for Rs. 60,000/- He wrote the defendant's agent asking whether his offer had been accepted and saying that he was prepared to accept any higher price if found reasonable. The Agent replied, 'Won't accept less than rupees one hundred thousand'. The Plaintiff accepted this and subsequently brought a suit for specific performance. Was a Contract concluded between the parties? Give reasons. **(20)**
- Q. No. 3.** How will one differentiate between a void agreement and an unlawful agreement? Explain the agreements which have been expressly declared as void. **(20)**
- Q. No. 4.** What are 'Conditions and Warranties'? Differentiate between the two and explain the 'Implied Conditions' in a Contract of Sale. **(20)**
- Q. No. 5.** Companies hold various kinds of meetings to regulate their business. Explain those meetings with special reference to the 'Statutory Meeting' and the 'Statutory Report' **(20)**
- Q. No. 6.** Partnership is a relation between the persons who have agreed to share the profits of a business carried on by all or someone acting on behalf of others. In view of this statement explain as to what are the ingredients of a partnership? What is the test required to determine the existence of a partnership? **(20)**
- Q. No. 7.** What is an 'Award'? Describe fully the grounds for setting aside an award. Does a court have the power to set aside an award suo motu? **(20)**
- Q. No. 8.** What is meant by 'Merger' under the law relating to competition in Pakistan? What is the procedure for the approval of merger? Discuss the powers of the Competition Commission for second phase review. **(20)**

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**MUSLIM LAW & JURISPRUDENCE**

**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.** Explain naskh (abrogation) in the light of the definitions of classic Muslim jurists. Also describe its role in the texts of Islamic Shari'ah. **(20)**

**Q. No. 3.** What is the Hanafi-Shafi' controversy over the doctrine of Istihsān (juristic preference)? Discuss its main points. **(20)**

**Q. No. 4.** What is meant by "missing person" in the law of inheritance? What would be the effect on the distribution of estate of a praepositus when one or more of his heirs are missing person? **(20)**

**Q. No. 5.** Define gharar. It is said that insurance is a modern contract of gharar and is incompatible with the injunctions of Islamic law. Argue. **(20)**

**Q. No. 6.** A group of modern scholars asserts that Islamic law imposes on divorcing husband to pay maintenance to the divorced wife for the rest of her life or until she marries someone else. What is your opinion with sound arguments? **(20)**

**Q. No. 7.** Discuss the Islamic view on imprisonment as a form of punishment. **(20)**

**Q. No. 8.** Write notes on any **TWO** of the following topics: **(20)**

**(a)** Nushūz

**(b)** Mahr al-Mith'l (Proper dower)

**(c)** Iqtirār (necessity) in Islamic law

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
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UNDER THE FEDERAL GOVERNMENT

Roll Number

PASHTO

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

PART-II

- (14) سوال نمبر 2: (a) د لاندیني ورکړي شوي انگرېزي عبارت په معیاري پښتو کښي ترجمه اوکړئ -  
Of all the Romantics, Blake is the most rigorous in his conception of the imagination. He could confidently say, "one Power alone makes a poet imaginary the divine vision". Because for him the imagination creates reality and this reality is the divine activity of the self in its unimpeded energy. His attention is turned towards an ideal, spiritual world, while with all other selves who obey the imagination he helps to build
- (b) ورکړي شوي انگریزی متلونو کښي درې متلونه پښتو ته راوړوئ.  
(i) First self, then others. (ii) A long with the dry the wet also burns.  
(iii) Though the water level is high, it is still below the bridge.  
(iv) Even a king's court has no justice. (v) You sell your appearance like a cow from Amritsar.  
(vi) For no reason at all, I want to pick a fight with you.
- (14) سوال نمبر 3: (a) د لاندیني پښتو عبارت په معیاري انگریزی کښي ترجمه اوکړئ -  
د کاني د دور انسان لازماً جفاکش او محنتي انسان و۔ د مټ په زور او د سنيي په زور ئې هر څه کول، چي اور په لاس ورغلو نو ورسره عقل هم شاملې دو او انسان جدید کي دلو۔ گویا د انسان خپل وجود بدن او اعضاؤ کښي خدائے پاک څه داسي ښانست پي دا کرے و چي هغه نورو جاندارو کښي نه و۔ او انسان د کاني د دور نه زر په مخ لارو۔ د یونان غټ دیوتا Zeus یا د روم غټ دیوتا Jupiter چي دا وکتل چي انسان ته اور په لاس ورغله دے نو Prometheus ته ئې سزا ورکړه او دغره په غونډيو ئې خورند کړو۔
- (b) د پښتو د لاندیني متلونو نه د درېو متلونو په انگریزی کښي ترجمه اوکړئ -  
(i) خرابي د واره سره لاري۔ (ii) د پي ښي نه تي ښته نشته۔  
(iii) د سپو خپلو کښي بدي وي خو فقير ته ټول يو وي۔ (iv) زمرے له خپله زوره نه دے خبر۔  
(v) چي زر پاک وي له اوره يي څه پاک وي۔ (vi) هر څوک به حسين به وي خو که نه وي کربلا پکښي۔
- سوال نمبر 4: روښاني تحریک پښتو ادب ته څه ورکړل؟ خپل معلومات وړاندې کړئ۔ (20)
- سوال نمبر 5: د اورنگزيب عالمگير سره د خوشحال بابا اختلافاتو دده په شاعري څه اثرات مرتب کړل؟ (20)
- سوال نمبر 6: د کاظم خان شې دا په غزل يو زړه پوري بحث وکړئ۔ (20)
- سوال نمبر 7: وائي چي یونس خليل د رومان شهزاده دے۔ ستاسو څه خيال دے۔ (20)
- سوال نمبر 8: د پښتو ژبي او تحقيق په وده کښي د مستشرقينو ډېر لونه لاس دے۔ د يو مستشرق په خدماتو رڼا واچوئ۔ (20)

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

PERSIAN

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. 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 : درباره زبان های رائج در ایران در دوره پیش از اسلام اطلاعات خود را مفصل بنویسید. (20)

سوال نمبر 3 : از عنوان های زیر راجع به دو عنوان مقاله ای به زبان فارسی بنویسید. (10 ، 10) (20)  
ا - ملک الشعرا بهار مشهدی و سبک شناسی او      ب - سبک خراسانی  
ج - محمد علی جمالزاده و ادبیات داستانی

سوال نمبر 4 : ا - اسم جامد و مشتق را تعریف کنید و مثال نیز بیاورید. (10)  
ب - بین صفت اشاره و اسم اشاره چه تفاوت دارد؟ با مثال واضح کنید. (10) (20)

سوال نمبر 5 : ا - " تاثیر مولانای روم بر اقبال لاهوری " مقاله ای به زبان فارسی بنویسید. (10)  
ب - متن زیر را به فارسی ترجمه کنید: (10) (20)

Isfahan is famous for its Perso–Islamic architecture, grand boulevards, covered bridges, palaces, tiled mosques, and minarets. Isfahan also has many historical buildings, monuments, paintings and artefacts. The fame of Isfahan led to the Persian pun and proverb "Esfahān nesf-e- jahān ast": Isfahan is half (of) the world. The Naghsh-e Jahan Square in Isfahan is one of the largest city squares in the world. UNESCO has designated it a World Heritage Site. Despite its altitude, Isfahan remains hot during the summer, with maxima typically around 35 °C (95 °F). However, with low humidity and moderate temperatures at night, the climate is quite pleasant.

SECTION – II

سوال نمبر 6 : از اجزای زیر دو جزو را به زبان فارسی توضیح دهید: (10 ، 10) (20)  
الف:

آی آدم ها که بر ساحل بساط دلگشا دارید  
نان به سفره جامه تان بر تن  
یک نفر در آب می خواند شما را  
موج سنگین را به دست خسته می کوبد  
باز می دارد دهان با چشم از وحشت دریده  
سایه هاتان را ز راه دور دیده  
آب را بلعیده در گود کبود و هر زمان بی تابیش افزون  
می کند زین آبها بیرون  
گاه سر، گه پا

**ب:**

دریای تو دریاست که آسوده چو صحراست  
دریای تو دریاست که افزون نشد و کاست  
بیگانه آشوب و نهنگ است چه دریاست  
از سینه چاکش صفت موج روان خیز  
از خواب گران، خواب گران، خواب گران، خیز  
از خواب گران خیز

**ج:**

به گوشه ای بنشینیم و در فراز کنیم  
به کوچه بر سر ره پاسبان بگردانیم  
اگر ز شحنه بود گیر و دار، نندیشیم  
و گر ز شاه رسد ارمغان بگردانیم  
به صلح بال فشانان صبحگاهی را  
ز شاخسار سوی آشیان بگردانیم  
ز حیدریم من و تو، ز ما عجب نبود  
گر آفتاب سوی خاوران بگردانیم

**(20)**

**سوال نمبر 7 :** متن زیر را بخوانید و سؤال‌ها را پاسخ دهید.

بدانکهولاینداشتتکاربزرگیستوخلافتحقاست در زمین چون بر سبیل عدل بود و چون از عدل و شفقت خالی بود خلافت ابلیس بود-لعنة الله- کههیچ سبب فساد عظیم تر از ظلم والی نیست. و اصل ولایت داشتن علم و عمل است و علم ولایت دراز است، اما عنوان علم‌ها آن است کهوالی باید که بداند که او را بدین عالم برای چه آورده اند و قرارگاه او چیست؟ و دنیا منزلگاه اوست، نه قرارگاه او. و بر صورت مسافری است که رحم مادر بدایت منزل اوست و لحد گورنهایت او. و هر سالی و هر ماهی و روزی که می گذرد از عمر او، چون مرحله ای است که بدان نزدیک می شود به قرار گاه خود و هر که را به قنطره گذر باید کرد، چون به عمارت قنطره روزگار به سر برد و منزلگاه فراموش کند، بی عقل بود و عاقل آن بود که در منزل دنیا جز به زادراه مشغول نشود و از دنیا به قدر ضرورت و حاجت قناعت کند. و هرچه بیش از آن بود همه زهر قاتل بود.

1. خلاصه متن را به فارسی ساده بنویسید.
2. کلمات خط کشید را معنی کنید.

**(20)**

**سوال نمبر 8 :** با آوردن مثال شعری ویژگی‌های ادبی و فکری دو نفر از شاعران زیر را بررسی کنید:

**(10 ، 10)**

ب - فروغ فرخزاد

- ا - نیما یوشیج
- ج - احمد شاملو

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**PHILOSOPHY**

<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.** Define philosophy. What is its relationship with religion? **(20)**
- Q. No. 3.** 'Doubt' is the key point of Cartesian Method. Illuminate. **(20)**
- Q. No. 4.** Bergson rejects any kind of 'teleological' explanation of evolution. Give your own opinion. **(20)**
- Q. No. 5.** Illustrate main characteristics of subjective idealism of Berkeley. **(20)**
- Q. No. 6.** Main idea of Kant's ethics is 'duty for the sake of duty'. Is it justified? Give your own statement. **(20)**
- Q. No. 7.** Write an essay on Ibn-e-Sina's theory of knowledge. **(20)**
- Q. No. 8.** Write short notes on any **TWO** of the following: **(10 each) (20)**
- (a)** Psychological and ethical egoism
  - (b)** Transcendentalism
  - (c)** Derrida

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**PHYSICS, 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. 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) Discuss electric field of point charges, keeping in view the magnitude of force acting on test charge according to Coulomb's Law. (8)
- (b) Derive Poisson's equation from Gauss's Law. Also write the expression for Laplace's equation. (8)
- (c) Find out the electric field due to charge of  $2e$  at a distance of  $26.5 \times 10^{-12}$  m. (4) **(20)**  
( $\epsilon_0 = 8.85 \times 10^{-12}$  C<sup>2</sup>/N.m<sup>2</sup> and  $e = 1.60 \times 10^{-19}$  C)
- Q. 3.** (a) Discuss in details the Energy Transport and the Poynting Vector. (8)
- (b) Write the four Maxwell's Equations both in integral and differential forms. (8)
- (c) Explain vector potential. (4) **(20)**
- Q. 4.** (a) State and explain Heisenberg's Uncertainty Principle. (8)
- (b) Discuss the phenomenon Barrier Tunneling. (8)
- (c) Find the momentum of an electron moving with a speed of  $1.88 \times 10^6$  m/s. where mass of electron is  $9.11 \times 10^{-31}$  kg. (4) **(20)**
- Q. 5.** (a) What do you understand by the term Dopping? How we can make semiconductors as n-type or p-type with the dopping? (8)
- (b) Discuss in details the N-P-N and P-N-P transistors. (8)
- (c) Explain MOFET. (4) **(20)**
- Q. 6.** (a) Discuss in detail the process of Natural Radioactivity. (8)
- (b) Discuss in detail the radioactive decay. (8)
- (c) Find the energy released during the alpha-decay of  $^{238}\text{U}$ . Where the needed atomic masses are  $^{238}\text{U}$  238.050785 u,  $^{234}\text{Th}$  234.043539 u and  $^4\text{He}$  4.002603 u. (4) **(20)**
- Q. 7.** (a) Discuss in detail the phenomenon of Fission. (8)
- (b) Explain the basic principles of Nuclear Reactors. (8)
- (c) Briefly write about the methods of detection of nuclear radiation. (4) **(20)**
- Q. 8.** Write notes on any **TWO** of the following: **(10 each)** **(20)**
- (a) Dielectric medium and Electric Polarization
- (b) Ampere's Law
- (c) Accelerators

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**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**POLITICAL SCIENCE, PAPER-I**

**Roll Number**

<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-A**

- Q. No. 2.** Why monistic or absolute concept of sovereignty has been abandoned? Analyse legal concept of sovereignty. (20)
- Q. No. 3.** Examine Montesquieu's theory of separation of powers. Why has he been called "Aristotle" of eighteenth century? Discuss. (20)
- Q. No. 4.** Critically analyze the Social Contract Theory of Hobbes, Locke and Rousseau. (20)
- Q. No. 5.** Examine the view that the Hegelian spirit is nothing but evolution of human consciousness to the realization of political maturity for global human co-existence. (20)

**SECTION-B**

- Q. No. 6.** Critically examine the basic principles of Fascism. (20)
- Q. No. 7.** Bring out clearly the difference between unitary and federal forms of government. (20)
- Q. No. 8.** Write short notes on the following:- (10 each) (20)
- (a).** Ibn-e-Khaldun's concept of Asbiyah
- (b).** Marx's theory of Class Struggle

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**POLITICAL SCIENCE, PAPER-II**

**Roll Number**

<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 ONE question from SECTION-A and THREE questions from SECTION-B. 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-A**

**Q. No. 2.** Discuss the way in which globalization could promote regionalization as an adaptation. (20)

**Q. No. 3.** Under the Unitary State System, how local government system works in UK? (20)

**SECTION-B**

**Q. No. 4.** Critically evaluate the role of Post-World War-II International Financial Regimes in the economic development of the less developed countries. (20)

**Q. No. 5.** Critically evaluate the role of Military in Turkish Politics? (20)

**Q. No. 6.** Discuss the powers and functions of China's National People's Congress? (20)

**Q. No. 7.** Make a comparative analysis of the Constitution of 1956 and amended Constitution of Pakistan 1973? (20)

**Q. No. 8.** In the Post World War-II period, what were the important patterns of the Balance of Power? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**PSYCHOLOGY**

<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.** What is street smartness? How Gardner's approach differs from the other theories of intelligence? (20)
- Q. No. 3.** What is the rationale behind using projective tests of personality? How TAT and Rorschach Ink Blot tests are different in terms of their structure and psychometric qualities? (20)
- Q. No. 4.** Enlist positive and negative symptoms along with different types of schizophrenia. Give the major plan of management of schizophrenia. (20)
- Q. No. 5.** How construct validity of psychological tests is determined by employing different psychometric procedures? (20)
- Q. No. 6.** How effectiveness of psychotherapy can be determined? Identify situations in which unconditional positive regard would be appropriate. How can CBT change the unhealthy state of a person? (20)
- Q. No. 7.** Why do we tend to explain causes of others and our own behaviors? Compare and contrast the different theories of attribution. (20)
- Q. No. 8.** Why raw scores on a psychological test are meaningless until interpreted with norms? Differentiate between developmental norms and within group norms with reference to major types of norms. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**PUBLIC ADMINISTRATION**

**Roll Number**

<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.** Compare and Contrast the Bureaucratic Model with New Public Management (NPM). Do you think NPM is relevant to developing countries like Pakistan? Support your argument with key indicators. **(20)**
- Q. No. 3.** Trace how the strategic management process has evolved. Also discuss the opportunities and constraints on collaborative approaches to an effective strategy development and its implementation. **(20)**
- Q. No. 4.** Describe the role of government in HRM at enterprise level. Elaborate key challenges in Public sector enterprises in Pakistan and way forward. **(20)**
- Q. No. 5.** Describe the four basic stages in the rational model of decision making and problem solving. When do bounded rationality, satisficing and heuristics enter your own decision making for better? For worse? **(20)**
- Q. No. 6.** Critically Analyze NRB-5Ds Model developed in 2001 in context with; Devolution of Political Process, Distribution of Resources to Districts, Diffusion of Power Authority Nexus, Deconcentrating of Management Functions and Decentralization of Administrative authority. **(20)**
- Q. No. 7.** “Bureaucracy and Democracy are antithetical. Bureaucracy is hierarchical, elitist, specialized, and informed while democracy is communal, pluralist, generalized, and ill-informed”. Discuss this statement keeping in view the quantum of expectations in Pakistan and the reality of the civic culture. **(20)**
- Q. No. 8.** Write comprehensive notes on the following:- **(10 each) (20)**
- (a)** Public Business Re-Engineering
  - (b)** Governance Challenges in Pakistan

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# FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION - 2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

## PUNJABI

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 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) 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.

## PART- II

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

سوال نمبر 2: سلطان باہودی شاعری فانی اللہ تے فنانی المرشدی شاعری اے، تہاڈا کیہ خیال اے۔ (16)

سوال نمبر 3: باقی صدیقی دی شاعری وچ پونٹھو ہار دی پنینڈ ورتھل جیوندی جاگدی وکھالی دیندی اے، ویروا کرو۔ (16)

سوال نمبر 4: پنجابی وچ فقہی ادب دی نور بارے بھرواں مضمون لکھو۔ (16)

سوال نمبر 5: 'ڈوہنکھیاں شاماں' وچ نواز دی کردار نگاری بارے اپنے وچا رسا نچھے کرو۔ (16)

سوال نمبر 6: 'جھاتیاں' وچ نفسیاتی تنقید دے حوالے نال کیہو دے کیہو دے مضمون شامل نہیں، ویروا کرو۔ (16)

سوال نمبر 7: 'پورنے' دے حوالے نال وارث شاہ دے چکر ڈھنگ بارے کھلارویں گل کرو۔ (16)

سوال نمبر 8: 'لوری' دنیا و قدیم ترین لوک گیت اے، دلایاں نال گل کرو۔ (16)

سوال نمبر 9: بیٹھ دتے سرناویاں وچوں کسے دو اُتے نوٹ لکھو۔ (16)

(الف) "پنجابی بولی دا پچھو کر"

(ب) شلوک

(ج) "پنجابی لسانیات"

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

PURE MATHEMATICS

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) Let  $G$  and  $G'$  be two groups and  $f : G \rightarrow G'$  be a homomorphism then prove the following: (10)
- (i)  $f(e) = e'$  where  $e$  and  $e'$  are the identities of  $G$  and  $G'$  respectively
- (ii)  $f(a^{-1}) = [f(a)]^{-1}, \forall a \in G$
- (b) Prove that every homomorphic image of a group is isomorphic to some quotient group. (10) (20)
- Q. 2. (a) A ring  $R$  is without zero divisor if and only if the cancellation law hold. (10)
- (b) Prove that arbitrary intersection of subrings is a subring. (10) (20)
- Q. 3. (a) Let  $T : \mathbb{R}^3 \rightarrow \mathbb{R}^3$  be the linear transformation defined by (10)
- $T(x_1, x_2, x_3) = (x_1 - x_2, x_1 + x_3, x_2 + x_3)$ . Find a basis and dimension of Range of  $T$ .
- (b) Prove that every finitely generated vector space has a basis. (10) (20)

SECTION-B

- Q. 4. (a) Find the critical points of  $f(x) = x^3 - 12x - 5$  and identify the open intervals on which  $f$  is increasing and on which  $f$  is decreasing. (10)
- (b) Find the horizontal and vertical asymptotes of the graph of  $f(x) = -\frac{8}{x^2 - 4}$  (10) (20)
- Q. 5. (a) Calculate  $\int \frac{-2x+4}{(x^2+1)(x-1)^2} dx$ . (10)
- (b) Find  $\frac{\partial w}{\partial x}$  at the point  $(x, y, z) = (2, -1, 1)$  if  $w = x^2 + y^2 + z^2, z^3 - xy + yz + y^3 = 1$  (10) (20)
- and  $x$  and  $y$  are the independent variables.
- Q. 6. (a) Determine the focus, vertex and directrix of the parabola  $x^2 + 6x - 8y + 17 = 0$  (10)
- (b) Find polar coordinates of the point  $p$  whose rectangular coordinates are (10) (20)
- $(3\sqrt{2}, -3\sqrt{2})$

**PURE MATHEMATICS**

**SECTION-C**

**Q. 7. (a)** Show that  $(\cos \theta + i \sin \theta)^n = \cos(n \theta) + i \sin(n \theta)$  for all integers  $n$ . (10)

**(b)** Find the  $n$ ,  $n$ th roots of unity. (10) (20)

**Q. 8. (a)** Find the Taylor series generated by  $f(x) = \frac{1}{x}$  at  $a = 2$ . Where, if anywhere, (10)

does the series converge to  $\frac{1}{x}$ ?

**(b)** Show that the p-series  $\sum_{n=1}^{\infty} \frac{1}{n^p}$ , ( $p$  a real constant) converges if  $p > 1$ , and (10) (20)  
diverges if  $P < 1$

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

SINDHI

TIME ALLOWED: THREE HOURS PART-I(MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80
<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> . Answer must be written in <b>respective language</b> except where specified in the question paper. <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

- (20) سوال نمبر 2: لساني جاگرافي ڇا آهي؟ سنڌيءَ جي لساني جاگرافي ٻڌائيندي ٻوليءَ جي مکيه لهجن بابت ڄاڻ ڏيو.
- (20) سوال نمبر 3: ڪلهوڙن جي دور کي سنڌي ادب جو سونهري دور چيو وڃي ٿو؟ دليلن سان ثابت ڪيو.
- (20) سوال نمبر 4: جديد سنڌي شاعريءَ جا ڪهڙا موضوع آهن؟ تفصيل سان ٻڌايو.
- (20) سوال نمبر 5: تنقيد ڇا آهي؟ ما بعد جديديت تحت سنڌيءَ ۾ ڪهڙو ادب تخليق ٿي رهيو آهي؟
- (20) سوال نمبر 6: سنڌي ڊرامن جي اوسر ۽ ارتقا بابت ٻڌائيندي جديد سنڌي ڊرامي جو جائزو پيش ڪيو.
- (20) سوال نمبر 7: هيٺين مان ڪن به ٻن شخصيتن جي علمي ۽ ادبي خدمتن بابت تفصيل سان لکو.  
(الف) شاھ عبدالطيف بهٽائي (ب) سچل سرمست (ج) حاجي احمد ملاح

- (10) سوال نمبر 8 (a) هيٺ ڏنل سنڌي فقري جو انگريزيءَ ۾ ترجمو ڪريو.  
گهڻن مؤرخن جو خيال آهي ته قاضي قادن ارغونن کي شهب ڏئي سنڌ جي اصلوڪن رهاڪن خاص طور ڌاريجن کي مارايو هو. حالانڪه قاضي قادن اهڙو ڪوئي به ڪو جهو ڪم نه ڪيو هو. پر حسن بيگ ارغون ۽ قاضي قادن ٻئي ميان مهدي جونپريءَ جا مريد هئا، ان ڪري سندن تعلق استوار رهيو. پر ارغون جڏهن مسلسل سنڌ سان بيواجببون ڪندار هيا ته هو بيزار ٿي مکي شريف ڏانهن هليو ويو. سندس وفات پڻ اتي ئي ٿي.

- (10) سوال نمبر 8 (b) هيٺ ڏنل انگريزي پيراگراف جو سنڌي ۾ ترجمو ڪريو؟  
The time is long gone when countless Americans, British, Canadian, Chinese, Germans, Australians, and people from all over the globe used to visit Pakistan to see its scenic beauty and astonishing historical and cultural heritage. Our beautiful country's tourism is now plagued with terrorism and instability which has kept it off the radar for all but a few most hardened explorers. Its rich culture, spectacular hill stations, scenic places, history, heritage, beautiful lakes and tallest mountains are tearfully waiting for eager visitors who would profoundly tell the world about their matchlessness.  
The people should join the government in its efforts to crush terrorism. The government should improve the law and order situation in all possible ways. Then all sorts of facilities should be provided by the government in hotels and tourist homes. Travelling should be comfortably easy. We should have the best international standards of tourism in the country. With this Pakistan will be a first-rate tourism-friendly country.

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**SOCIOLOGY**

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

**PART-II**

- Q. No. 2.** Differentiate between social change and social structural changes. Discuss three key areas which need immediate attention of policy makers. **(20)**
- Q. No. 3.** Durkheim emphasized on the functional aspects of religion. However, we observe many instances of religious extremism in Pakistani society. Shed some light on the phenomenon. **(20)**
- Q. No. 4.** Do you think Karl Marx's capitalist perspective is applicable to today's world? Elaborate your answer by giving arguments. **(20)**
- Q. No. 5.** Max Weber used the term *Verstehen* for better understanding of social actions. Explain the significance of the concept by discussing two examples from social life. **(20)**
- Q. No. 6.** How can moral degeneration be scientifically studied? Delineate the entire research process for studying this phenomenon. **(20)**
- Q. No. 7.** Differentiate between qualitative and quantitative way of studying any social phenomenon. Elaborate by giving an example of each approach and how that can be inquired? **(20)**
- Q. No. 8.** Write Notes on the following:- **(10 each) (20)**
- (a)** Types of society
  - (b)** Caste and Class Dynamics in Pakistan

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**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
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UNDER THE FEDERAL GOVERNMENT**

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

**PART-II  
SECTION – A**

- Q. 2. (a)** Two bags A and B contain red and blue marbles. Bag A contains 7 red and 8 blue marbles. Bag B contains 9 red and 7 blue marbles. One bag is selected randomly and one marble is drawn. If the drawn marble is red then what is the probability that this drawn marble is from bag A? (10)
- (b)** For the given set of observations showing weekly sale of a specific type of refrigerators. (10) (20)
- 35, 56, 43, 21, 43, 56, 78, 12, 56, 47, 76, 23, 52

- (i) Find mean and standard deviation.  
(ii) Find and describe  $\bar{x} \pm 2(sd)$

- Q. 3.** Raw material used in the production of a synthetic fiber is stored in a place that has no humidity control. Measurements of the relative humidity (y) and moisture control (x), on ten days, are given below. Fit a Least Square model: (20)
- $y = \beta_1 + \beta_2 x$ . Further find and explain coefficient of determination.

Humidity	46	53	37	42	34	29	60	48	41	48
Moisture	12	14	11	13	10	8	17	12	10	15

- Q. 4.** Three teaching methods were implemented to a homogenous group of school level students. Groups of students, selected randomly, were taught with a particular method and their scores were recorded as given below: (20)

Method A 94, 88, 91, 74, 87, 97  
Method B 85, 82, 79, 84, 61, 72, 80  
Method C 89, 67, 72, 76, 69

Use Kruskal-Wallis Test, at 5% level of significance to test the hypothesis that, on average there is no significant difference between the average score of these teaching methods.

**SECTION-B**

- Q. 5. (a)** Draw all possible samples of size 3, without replacement, from the population, 6, 12, 3, 9, 15, and 21. Find sample means and prove the following relationships, using usual notations. (15)

(i)  $E(\bar{x}) = \mu$                       and                      (ii)  $V(\bar{x}) = \frac{\sigma^2}{n} \left( \frac{N-n}{N-1} \right)$

- (b)** Define Stratified Random sampling method, identify situations where this type of sampling is beneficial. Give an example. (5) (20)

**STATISTICS**

**Q. 6. (a)** To compare the effectiveness of two medicines M1 and M2, for headache, a study was conducted. Samples from a homogeneous group of headache patients were selected randomly and administered M1 (six patients) and M2 (8 patients) selected randomly. Recovery times (in minutes) of Patients were recorded as follows: (15)

Medicine M1	12	9	8	11	10	9		
Medicine M2	5	11	7	6	8	6	5	4

Could it be concluded at 5% level of significance that, on average, medicine M2 is better than M1?

**(b)** While testing hypothesis one may commit errors when we make decisions. State and explain such errors, supporting by real life example. (5) (20)

**Q.7. (a)** The following Latin Square layout displays the scores secured by nine college students. Students are of different ethnic background and various professional interests. (15)

Professional Interest	Ethnic Background		
	X	Y	Z
Law	A 75	B 86	C 69
Medicine	B 95	C 79	A 86
Engineering	C 70	A 83	B 93

In this table A, B, and C are the three instructors. Analyze and test following hypotheses, Use  $\alpha = 0.05$ .

- (i) Having a different instructor has no effect on the scores.
- (ii) Differences in ethnic backgrounds have no effect on the scores
- (iii) Differences in professional interest have no effect on the scores.

**(b)** Describe the role of Multiple Comparison tests in Analysis of Variance. Name few Multiple Comparison tests and explain one method. (5) (20)

**Q.8. (a)** Explain the terms Demography and Vital statistics. List few sources of demographic data both locally and globally. (5)

**(b)** Using the information given in the following table. Calculate Total Fertility Rate (TFR) and Gross Fertility Rate (GFR). (10)

Age (years)	Women Population	No of births to women
15-19	84790	343
20-24	70010	14541
25-29	72660	16736
30-34	75920	12218
35-39	75100	756
40-44	71620	82
45-49	66660	45

**(c)** Differentiate between Rates and Ratios. Explain Crude Death Rate and Specific Death Rate. (5) (20)

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**COMPETITIVE EXAMINATION-2020**  
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**Roll Number**

**TOWN PLANNING & URBAN MANAGEMENT**

**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.** How housing for lower and middle income people are becoming a challenge? Why site and services schemes fail to address the issue of housing for all segments of the society? Discuss. **(20)**

**Q. No. 3.** What are the main factors of heat Islands development in our cities? How its impacts can be reduced? Discuss. **(20)**

**Q. No. 4.** Differentiate between Urban Design, Urban planning and Architecture by giving example. Explain the role of each one in the achievement of a livable and compact city. **(20)**

**Q. No. 5.** How planned Public Capital Investment (PCI) contribute to land use control? Support your answer by giving live example from the developed world cities. **(20)**

**Q. No. 6.** How development plan could be made effective to address the issue of spatial growth in cities? Illustrate with examples. **(20)**

**Q. No. 7.** Highlight the importance of urban design in achieving a sustainable urban form. What role urban design can plan in the livability of a city? Explain. **(20)**

**Q. No. 8.** Write short notes on any TWO of the following: **(10 marks each) (20)**  
**(a) Urban Regeneration**  
**(b) National Environmental policy**  
**(c) Urban Economy**

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2020  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

URDU LITERATURE

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

(15)

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

- جزو اول
- (1) کن نیندوں اب تو سوتی ہے اے چشم گرید ناک  
مژگاں تو کھول شہر کو سیلاب لے گیا
- (2) بے پردہ سوئے وادی مجنوں گزر نہ کر  
ہر ذرہ کے نقاب میں دل بے قرار ہے
- (3) تمہیں کہورندو محتسب میں ہے آج شب کون فرق ایسا  
یہ آکے پیٹھے ہیں میکدے میں وہ اٹھ کے آئے ہیں میکدے سے
- (4) امید نہیں جینے کی یہاں صبح سے تا شام  
ہستی کو یہ سمجھو کہ ہے خورشید لب بام

جزو دوم

یہ طہران جو تیرے خوابوں میں  
پاریس کا نقش ثانی تھا  
یوں تو یہاں رہنڈاروں میں  
بہتا ہے ہر شام سیمافرو شوں کا سیلاب جاری  
یہاں رقص گاہوں میں اب بھی  
بہت جھلملاتی ہیں محفل کی شمعیں  
یہاں رقص سے چور  
یا جام و بادہ سے مخمور ہو کر  
وطن کے بچاری  
بابنگ سنٹور و تار و دف و نے  
لگتے ہیں مل کر  
وطن؛ اے وطن؛ کی صدائیں  
مگر کون جانے یہ کس کا وطن ہے؟

(10)

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

ناصر کاظمی نے ہجرت کے دکھ کو اپنی تخلیق کا حصہ بنایا اس بات کو ملحوظ رکھتے ہوئے ان کے فنی و فکری محاسن پر روشنی ڈالیں۔

یا

مجید امجد نے شب رفتہ میں فرد کی تنہائی اور کرب کو شاعرانہ اداسی کا رنگ دیا ہے یہی ان کی شاعری کا غالب رنگ ہے۔ سیر حاصل تبصرہ کریں۔

(15)

سوال نمبر 3- (الف) مشتاق احمد یوسفی کی کتاب "آب گم" کے محاسن پر روشنی ڈالیں۔

یا

خاکہ نگاری کے بنیادی لوازمات کو پیش نظر رکھتے ہوئے مولوی عبدالحق کی کتاب "چند ہم عصر" کا جائزہ لیں۔

(10)

(ب) مندرجہ ذیل میں سے کسی ایک اقتباس کی تشریح کریں۔ نیز مضمون کا نام بھی لکھیے۔  
"مرد معمر نے جو غالباً کسی گہری سوچ میں غرق تھا۔ اپنا بھاری سر اٹھایا۔ جو گردن کی لاغری کی وجہ سے نیچے کو جھکا ہوا تھا۔۔۔ کہانی! میں خود ایک کہانی ہوں مگر"۔ اس کے بعد کے الفاظ اس نے اپنے پوپلے منہ ہی میں بڑبڑائے۔۔۔ شاید وہ اس جملے کو لڑکوں کے سامنے ادا کرنا نہیں چاہتا تھا جن کی سمجھ اس قابل نہ تھی کہ وہ فلسفیانہ نکات حل کر سکے۔"

یا

وسیع میدان کے چاروں طرف گپوں اور حقوں کے دور چل رہے تھے اور کھلاڑیوں کے ماضی اور مستقبل کو جانچا پرکھا جا رہا تھا۔  
مشہور جوڑیاں ابھی میدان میں نہیں اتری تھیں یہ نامور کھلاڑی اپنے دوستوں اور عقیدت مندوں کے گھیرے میں کھڑے تھے۔

(10)

سوال نمبر 4- کسی ایک نثر پارے کی تلخیص کیجئے۔

ایسے بھی محتاط لوگ ہیں جو پیکار و فتنار زبیت سے بچنے کی خاطر خود کو بے عملی کے حصار عافیت میں قید رکھتے ہیں۔ یہ بھاری اور قیمتی پردوں کی طرح لٹکے لٹکے ہی لیر لیر ہو جاتے ہیں۔ کچھ گم صم گھمبیر لوگ اس دیوار کی مانند تڑختے ہیں جس کی مہین سی دراڑ جو عمدہ پینٹ یا کسی آرائشی تصویر سے باسانی چھپ جاتی ہے اس بات کی غمازی کرتی ہے کہ نیواندر ہی اندر کسی صدمے سے زمین میں دھنس رہی ہے۔ بعض لوگ چینی کے برتن کی طرح ٹوٹتے ہیں کہ مسالے سے آسانی سے جڑ تو جاتے ہیں مگر بال اور جوڑ پہلے نظر آتا ہے برتن بعد میں۔ اس کے برعکس کچھ ڈھیٹ اور چپکولوگ ایسے اٹوٹ مادے کے بنے ہوتے ہیں کہ چپو نگم کی طرح کتنا ہی چباؤ ٹوٹنے کا نام نہیں لیتے۔ یہ چپو نگم لوگ خود آدمی نہیں، پر آدم شناس ہیں۔ یہ کامیاب و کامران و کام گار لوگ ہیں۔ یہ وہ ہیں جنہوں نے انسان کو دیکھا، پرکھا اور برتا ہے اور جب اسے کھوٹا پایا تو خود بھی کھوٹے ہو گئے۔ وقت کی اٹھتی موج نے اپنے حباب کا تاج ان کے سر پہ رکھا اور ساعت گذراں نے اپنے تخت رواں پہ بٹھایا۔۔

یا

یہ سب ثقافتی سمجھوتے تسخیر و تالیف قلوب کی خاطر قرن بہ قرن ہوا کیے مگر وقت نے ثابت کر دیا کہ یہ دل کو سمجھانے والی بات تھی۔  
آداب عرض اور آہنگ خسروی آنے والی رستاخیز میں کسی کی جان و مال کو۔۔۔۔۔ حتیٰ کہ خود سمجھوتے کی زبان کو بھی۔۔۔۔۔ نہ بچا سکے۔  
وقت نے ایسے تمام دل خوش کن اور آرائشی سمجھوتوں کو خونابہ برباد کر دیا۔ مٹل کٹو اب کے غلاف گرتی ہوئی دیواروں کو گرنے سے نہیں روک سکتے۔ چنانچہ وہی ہوا جو ہونا تھا۔ بھلا یہ کیسے ہو سکتا ہے کہ زبان یار تو قلم کردی جائے اخلاص و رواداری کا پرچم سرنگوں ہو جائے مگر کلچر کام گار و فتیاب ہو۔

(20)

سوال نمبر 5- کسی ایک موضوع پر سیر حاصل مضمون لکھیے۔

(الف) اردو نثر میں طنز و مزاح کا ارتقاء

(ب) غالب کی شعری رسائی

(ج) اردو ادب میں تائینیت

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

**ZOOLOGY**

<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.** Explain in detail the circulation, gas exchange and temperature regulation in reptiles. **(20)**
- Q. No. 3.** Describe various hormones of the mammalian adrenal gland with their functions. **(20)**
- Q. No. 4.** Write a detailed account on maintenance functions of class Arachnida. **(20)**
- Q. No. 5.** Define linked genes. Explain in detail the inheritance of X-linked recessive genes. **(20)**
- Q. No. 6.** Explain the body wall, digestion, nervous system and sensory organs of flat worms. **(20)**
- Q. No. 7.** How does excretion and osmoregulation occur in mammals? **(20)**
- Q. No. 8.** Write short notes on any **FOUR** of the following: **(05 each) (20)**
- (a)** Hardy-Weinberg theorem
  - (b)** Sedimentary cycle
  - (c)** Metamerism
  - (d)** Mechanism of neuron action
  - (e)** Invertebrate sensory receptors
  - (f)** Gas exchange in Mammals

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