

FEDERAL PUBLIC SERVICE COMMISSION

Roll No.

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

ESSAY

TIME ALLOWED: THREE HOURS **MAXIMUM MARKS: 100** NOTE: (i) Make an outline and write a COMPREHENSIVE ESSAY (2500-3000 words) on any ONE of the given topics. Make sure you use different forms of discourses, e.g. exposition, argumentation, description and narration. Credit will be given for organization, relevance and clarity. (ii) No Page/Space be left blank between the answer. All the blank pages of Answer Book must be crossed. 1. Real development should transform people's lives, not just economic statistics. 2. Higher Education in Pakistan: Ills and Remedies. 3. Too many of us are not living our dreams because we are living our fears. 4. China - Pakistan Economic Corridor (CPEC) and its Socio-economic Implications for the Region and the World. Beware the barrenness of a busy life! The Emerging Power of Social Media: Prospects and Problems. 6. In the fight against terrorism and corruption, it is imperative not to compromise human 7. rights and civil liberties. 8. The threat of Global Warming and the ways to counter it. 9. Will "Rule of law" always remain an impracticable myth in our country? 10. Democracy in Pakistan: Hopes and Hurdles.



Roll Number

ENGLISH (PRECIS & COMPOSITION)

TIME ALLOWED: THREE HOURS 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 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) 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. 2. Write a précis of the following passage in about 120 words and also suggest a suitable title: (20)

It is in the temperate countries of northern Europe that the beneficial effects of cold are most manifest. A cold climate seems to stimulate energy by acting as an obstacle. In the face of an insuperable obstacle our energies are numbed by despair; the total absence of obstacles, on the other hand leaves no room for the exercise and training of energy; but a struggle against difficulties that we have a fair hope of over-coming, calls into active operation all our powers. In like manner, while intense cold numbs human energies, and a hot climate affords little motive for exertion, moderate cold seems to have a bracing effect on the human race. In a moderately cold climate man is engaged in an arduous, but no hopeless struggles and with the inclemency of the weather. He has to build strong houses and procure thick clothes to keep himself warm. To supply fuel for his fires, he must hew down trees and dig coal out of the earth. In the open air, unless he moves quickly, he will suffer pain from the biting wind. Finally, in order to replenish the expenditure of bodily tissue caused by his necessary exertions, he has to procure for himself plenty of nourishing food.

Quite different is the lot of man in the tropics. In the neighbourhood of the equator there is little need of clothes or fire, and it is possible with perfect comfort and no danger to health, to pass the livelong day stretched out on the bare ground beneath the shade of a tree. A very little fruit or vegetable food is required to sustain life under such circumstances, and that little can be obtained without much exertion from the bounteous earth.

We may recognize must the same difference between ourselves at different seasons of the year, as there is between human nature in the tropics and in temperate climes. In hot weather we are generally languid and inclined to take life easily; but when the cold season comes, we find that we are more inclined to vigorous exertion of our minds and bodies.

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

The third great defect of our civilization is that it does not know what to do with its knowledge. Science has given us powers fit for the gods, yet we use them like small children. For example, we do not know how to manage our machines. Machines were made to be man's servants; yet he has grown so dependent on them that they are in a fair way to become his master. Already most men spend most of their lives looking after and waiting upon machines. And the machines are very stern masters. They must be fed with coal, and given petrol to drink, and oil to wash with, and they must be kept at the right temperature. And if they do not get their meals when they expect them, they grow sulky and refuse to work, or burst with rage, and blow up, and spread ruin and destruction all around them. So we have to wait upon them very attentively and do all that we can to keep them in a good temper. Already we find it difficult either to work or play without the machines, and a time may come when they will rule us altogether, just as we rule the animals.

And this brings me to the point at which I asked, "What do we do with all the time which the machines have saved for us, and the new energy they have given us?" On the whole, it must be admitted, we do very little. For the most part we use our time and energy to make more and better machines; but more and better machines will only give us still more time and still more energy, and what are we to do with them? The answer, I think, is that we should try to become mere civilized. For the machines themselves, and the power which the machines have given us, are not civilization but aids to civilization. But you will remember that we agreed at the beginning that being civilized meant making and linking beautiful things. Thinking freely, and living rightly and maintaining justice equally between man and man. Man has a better chance today to do these things than he ever had before; he has more time, more energy, less to fear and less to fight against. If he will give his time and energy which his machines have won for him to making more beautiful things, to finding out more and more about the universe, to removing the causes of quarrels between nations, to discovering how to prevent poverty, then I think our civilization would undoubtedly be the greater, as it would be the most lasing that there has ever been.

Questions: 1. Instead of making machines our servants the author says they have become our masters. In what sense has this come about? (4)

- 2. The use of machines has brought us more leisure and more energy. But the author says that this has been a curse rather than a blessing. Why? (4)
- 3. What exactly is the meaning of 'civilization'? Do you agree with the author's views?
- 4. 'Making more beautiful things' what does this expression mean? Make a list of the beautiful things that you would like to make and how you would make them. (4)
- 5. Mention some plans you may have to prevent poverty in the world. Who would receive your most particular attention, and why? (4)

(4)

ENGLISH (PRECIS & COMPOSITION)

Q. 4.	(a) Correct only FIVE of the following: (i) They only work when they have no money. (ii) They left the hotel here they had been staying in a motor-car. (iii) I cannot by no means allow you to do so. (iv) My friend said he never remembered having read a more enjoyable lower to the control of the control of the orator than by his matter to the control of the orator than by his matter than the control of the orator than by his matter than the control of the orator than by his matter than the control of the orator than by his matter than the control of the orator than by his matter than the control of the orator than by his matter than the control of the orator than							oyable book ought it to h	to his satisfaction.	
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Roll Number

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 20**MAXIMUM 30 MINUTES PART-II** MAXIMUM MARKS = 80**PART-I(MCQS):** 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 (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. Extra attempt of any question or any part of the attempted question will not be considered. (vi) (vii) Use of Calculator is NOT allowed. PART-II **SECTION-I** (A). Describe different methods to estimate the age of the Universe. Q. No. 2. (5) **(B).** Explain the formation of Lunar Eclipse. (5) (C). Explain the terms Dark Energy and Dark Matter. **(5)** (D). Define the term Black Hole. What's expected inside it? (5) (20)Q. No. 3. (A). Describe different causes and preventions of 'Polio' (5) **(B).** Define the term 'Bio-Fuel'. How is it helpful to promote clean energy? **(5)** (C). Define 'Carbohydrates'. Describe different steps to digest these in the human **(5)** body. (D). Describe the 'Cell Structure'. Write down at least three differences between an (5) (20) animal cell and plant cell. O. No. 4. (A). What is 'Acid Rain'. Describe its causes and how it can be prevented? (5) (B). What is 'Water Pollution'. Discuss its causes and measurement methods. Name (5) the countries with the highest and lowest percentage of it. (C). Write a comprehensive note on 'Smog'. **(5)** (D). Describe different causes of 'Tsunami'. Is there any difference between a (5) (20) Tsunami and a tidal wave? Name the worst Tsunami ever recorded. (A). Write a note, how data is stored on a 'Hard Disk'. Q. No. 5. (5) (B). How an 'Optical Fiber' is constructed? How is it helpful in transmitting the (5) electromagnetic radiations?

(5)

(5) (20)

(C). Write a comprehensive note on 'Balanced Diet'.

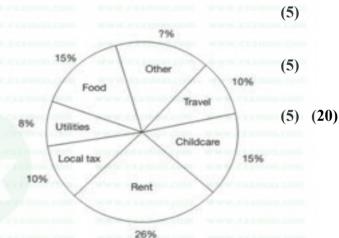
(D). What is 'Artificial Intelligence'? How is it helpful for humanity?

SECTION-II

- Q. No. 6. (A). It takes 3 liters of paint to cover an area of 24 square meters. What percentage increase in the quantity of paint would be required to cover an area of 50.4 square meters?
 - **(B).** An automobile travels 3 km towards south, 4 km towards west, 5 km towards north and 2 km towards south-east. How far is it from its starting position?
 - (C). Tahir started a business with a capital of Rs. 15,000. After 5 months Umar also joined him with an investment of Rs. 30,000. At the start of 9th month, Usman joined them by investing Rs. 45,000. At the end of the year they earned a profit of Rs. 406,000. Find the share of each one.
 - (D). A man left his property of Rs. 640,000. A debt of Rs. 40,000 was due to him and Rs. (5) (20) 5,000 was spent on his burial. Distribute the amount between his widow, one daughter and two sons according to the Islamic Law.
- Q. No. 7. The breakdown of average monthly expenditure for a family is given in the following Figure:
 - (A). Calculate from the figure what percentage of the family's expenditure is on 'other'? (5)
 - (B). Approximately what fraction of the family's monthly expenditure do' 'utilities', 'rent' and 'food' represent?

(C).If the family spends Rs.11600 on utilities, how much is the family's total expenditure?

(D). Other expenditure comprises savings, entertainment and luxury items, which are spent in the ratio 3:4:1. Calculate how much the family saves each month if monthly income is Rs.24,000.



- Q. No. 8. (A). Police officers are in pursuit of a stolen vehicle. Officer Baker is directly behind (5) the stolen car. Officer Lopez is behind Baker; Officer O'Malley is behind Lopez. Officer Reinhart is ahead of the stolen car and coming from the opposite direction. Officer Reinhart makes a U-turn and joins the pursuit. He pulls in behind Officer Lopez. Officer Baker pulls up on the driver's side of the stolen vehicle and Officer Lopez pulls up on the other side. Which officer is directly behind the vehicle?
 - (B). Define a Histogram. How is it constructed? What information may be deduced (5) from it?
 - (C). Look at this series: F2, ___, D8, C16, B32, What number should fill the blank? (5)
 - (D). In a certain code language LANDMINE is written as PYRBQGRC. How will (5) (20) HOMEMADE be written in that code language?



PART-I(MCQS):

FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION-2018** FOR RECRUITMENT TO POSTS IN BS-17

UNDER THE FEDERAL GOVERNMENT

GENERAL KNOWLEDGE-II (CURRENT AFFAIRS)

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

Roll Number

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.
 - 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.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
 - Extra attempt of any question or any part of the attempted question will not be considered. (vi)

PART-II

- China-Pakistan Economic Corridor (CPEC) is considered as a game-changer. How the O. No. 2. CPEC can be helpful to uplift the Pakistan's economy? Discuss.
- Q. No. 3. Discuss in detail the Iran-Pakistan gas pipeline and challenges to it. (20)
- How the United States is trying to keep its dominant position in the Asia-Pacific and O. No. 4. (20)what is the China's response to it?
- Critically analyze the newly established Islamic Military Alliance and its future implications for the Muslim World?
- Describe the 2017 Qatar Diplomatic Crisis and its impact on the Middle East. Q. No. 6. (20)
- Q. No. 7. Critically examine the Donald Trump's Policy for South Asia and its implications for (20)Pakistan and the region.
- What are the opportunities and challenges for Pakistan as one of the new members of the Shanghai Cooperation Organization (SCO)?



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2018 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT GENERAL KNOWLEDGE-III (PAKISTAN AFFAIRS)

Roll Number

	TAKIST	ATTAINS)		
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	<u>P</u>	ART-II		
Q. No. 2.	Critically evaluate the foundations of A the context of Indo-Pak Subcontinent.	llama Iqbal's concept of	Muslim separatism in	(20)
Q. No. 3.	Discuss the 3 rd June Plan or Mount implemented?	tbatten Plan and also	describe how it was	(20)
Q. No. 4.	Describe the political system of Pakist make country politically stable?	tan. Which form of gove	ernment is suitable to	(20)
Q. No. 5.	Define non-state actors. 'Non-state actors security than threats from external state			(20)
Q. No. 6.	Discuss the nature of centre-province rel	lations under the 1973 Co	nstitution.	(20)
Q. No. 7.	Discuss the changing trends in Pakistan-	US relations since 2001.		(20)
Q. No. 8.	There is crisis of national integration in you suggest for the promotion of national			(20)
	***	*****		



Roll Number

ISLAMIC STUDIES

TIME ALLO PART-I(MO	OWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM I MAXIMUM I				
NOTE: (i) (ii) (iii)	Part-II is to be attempted on the separ Attempt FOUR questions from PART All the parts (if any) of each Questio places.	-II. ALL questions car		of at different			
www.czai	Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. 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 p	part of the attempted qu	estion will not be co	onsidered.			
	<u>p</u>	PART-II					
Q. No. 2.	Define Ijtihad, also highlight its conter	mporary importance in	the light of Islamic	Fiqh. (20)			
Q. No. 3.	What is Self-purification and <i>Ehsan</i> ? It describe its individual and collective in	1	f Quran and Sunna	h, also (20)			
Q. No. 4.	Point out the motives of terrorism terrorism?	in Pakistan. How car	n the society get	rid of (20)			
Q. No. 5.	Highlight the responsibilities of civil se	ervants in the light of Is	lamic teachings.	(20)			
Q. No. 6.	Write a comprehensive note on Zaka social impacts.	at system of Islam and	d its spiritual, mor	al and (20			
Q. No. 7.	Describe, in detail, the basic characterist	stics of Islamic civiliza	tion.	(20)			
Q. No. 8.	The Holy Prophet (\Box) is the prophet of	peace and safety. Expl	ain with arguments	. (20			
	<u>URDU Y</u>	<u>VERSION</u>					
ح کریں۔	ی روشنی میں اس کی عصری اہمیت واضع	تے ہوئے فقہ اسلامی کہ	اجتهادكي تعريف كر (20)	سوال نمبر 2:			
س کے	ت کی روشنی میں وضاحت کرتے ہوئے ا	ے کیا مراد ہے؟ قرآن وسن	تزكيه و احسان سي	سوال نمبر 3:			
	min.com www.czamoo.com www.czamoo.		ی اثرات بیان کریں۔				
دلائي جا	ں اور معاشرے کو اس سے کیسے نجات د	ئردی کے محرکات کیا ہیا م	پاکستان میں دہشت ک	موال نمبر4:			
	ز مین کی ذمہ داریاں واضح کریں۔	(20	السلام تحادمات ک	ںکتی ہے؟ ہو ال نمبر 5:			
	در میں دی دمہ داریاں واقعی حریں۔	روستی میں سر داری مار	ر السار مي عليمات علي (20)	هوان عجرار.			
ی شذره سپردِ	اخلاقی اور معاشرتی اثرات پر ایک تفصیل	اۃ اور اس کے روحانی،		موال نمبر 6:			
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Roll Number

ACCOUNTANCY AND AUDITING, PAPER-I

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

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

- (ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.
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- (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
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- (vi) Extra attempt of any question or any part of the attempted question will not be considered.
- (vii) Use of Calculator is allowed.

PART – II SECTION – A

Q. No. 2. Following is the summary of closing balances (unadjusted trial balance) of Muddasar Co. for the year ended on December 31, 2016.

Accounts	Amount (Rs.)	Accounts	Amount (Rs.)
Cash	80000	Accounts Receivable	35200
Store Supplies	5000	Prepaid Rent	11240
Furniture	7600	Accumulated Depreciation on Furnitu	re 1520
Insurance	8500	Plant & Machinery	45000
Accumulated Dep. on		Capital	165000
Plant & Machinery	9000	Drawings	31000
Accounts Payable	8500	Salaries Expenses	9500
Sales Revenue	212980	Purchases	95000
Advertising Expenses	7000	Purchase Returns	6500
Wages	10 000	Opening Merchandise Inventory	45000
Sales Returns	3000	Miscellaneous Expenses	5000
Commercial Expenses	5460	www.gramoo.com	

Additional Information (adjustments) needs settlements at the end of period to show the true picture of the financial performance of Co.

- i. Closing Merchandise Inventory valued at Rs. 35 000
- ii. Store supplies on hand at the end of year is Rs. 1500
- iii. It is noticed that Prepaid Rent amounting Rs. 9240 was expired during the period
- iv. Prepaid Insurance is valued Rs. 1500 at the end of the period
- v. Outstanding salaries are Rs. 3000
- vi. Depreciation is charged @ 10 % for Plant & Machinery and @ 7% for Furniture

Required: Based upon above information, prepare Adjusting Entries, Adjusted Trail Balance and Income Statement & Balance Sheet.

Q. No. 3. The Income Statement of the Abdul Rehman & Co for the year on December 31 (for each year 2015 & 2016) is given as under:

, 8		
	<u>2016</u>	<u>2015</u>
Sales	Rs. 900,000	Rs. 800,000
Cost of goods sold Beginning inventory	43,000	40,000
Purchases	637,000	483,000
Goods available for sale	680,000	523,000
Ending inventory	70,000	43,000
Cost of goods sold	610,000	480,000
Gross margin	290,000	320,000
Operating expenses	248,000	280,000
Income before taxes	42,000	40,000
Income taxes	17,000	18,000
Net income	25,000	22,000
Plus: Retained earnings, beginning balance	137,000	130,000
Less: Dividends	0	15,000
Retained earnings, ending balance	162,000	137,000

Page 1 of 4

ACCOUNTANCY AND AUDITING, PAPER-I

The Balance sheet of the Company as on December 31 for each year is given as under:

	<u>2015</u>	<u>2016</u>
<u>Assets</u>	Rs.	Rs.
Cash	20,000	17,000
Marketable securities	20,000	22,000
Notes receivable	4,000	3,000
Accounts receivable	50,000	56,000
Merchandise inventory	70,000	43,000
Prepaid expenses	4,000	4,000
Property, plant & equipment (net)	340,000	310,000
Total assets	508,000	455,000
Liabilities and Stockholders' Equity		
Accounts payable	40,000	38,000
Salaries payable	2,000	3,000
Taxes payable	4,000	2,000
Bonds payable, 8%	100,000	100,000
Preferred stock, 6%, Rs100 par, cumulative	50,000	50,000
Common stock, Rs 10 par	150,000	125,000
Retained earnings	162,000	137,000
Total liabilities and stockholders' equity	508,000	455,000

Required: Horizontal Analysis and Vertical Analysis for the above given financial statements (Income Statement & Balance Sheet) of Abdul Rehman & Co. and comment on the results.

- Q. No. 4. (a) The XYZ Co. purchased a large machine 5 years ago at a total cost of Rs. 400,000. (10) The accumulated depreciation on this machine is Rs. 290,000. The corporation sold the machine at Rs.10, 000 gain.
 Required: Calculate the amount would be reported as cash flow from this sale.
 - (b) On April 1, 1993 Ayesha Industries purchased new equipment at a cost of Rs. 325000. (10) (20) Useful life of this equipment was estimated at 5 years, with a residual value of Rs. 25000. For tax purposes, however, this equipment is classified as "3- year property". Required: Compute the annual depreciation expense for each year until this equipment becomes fully depreciated under each depreciation methods listed below (Because you will record depreciation for only a fraction of a year in 1993, depreciation will extend through in all methods except MACRS) and show supporting computations.
 - i. Straight –line, with depreciation for fractional years rounded to the nearest whole month.
 - ii. 20%-declining-balance method, with the half-year convention. Limit depreciation in 1998 to an amount which reduces the undepreciated cost to the estimated residual value.
 - iii. Sum-of-the-years'-digits, with the half-year convention
 - iv. MACRS accelerated rates for "3-year property"

SECTION-B

Q. No. 5. Proprietor (Owner) of ABC Industries has limited knowledge of Cost & Managerial Accounting who prepared Income Statement for his business for the year ended on December 31, 2016 that is given as under:

WII.W W I.		
	(Rs.)	(Rs.)
Sales		675000
Less: Expenses		
Direct Labour	137500	
Indirect Labour	18000	
Selling & Administrative Salaries	48000	
Raw materials purchased	248500	
Electricity bill	22500	
Insurance expired	6000	
Depreciation of factory equipments	33000	
Depreciation of sales equipments	4500	
Rent of Premises	75000	
Advertising	81500	674500
Net Profit	www.ciiiiioo.com	500

The Owner has some doubts about the accuracy of the above statement and has requested you (as Professional Accountant) to check over the statement and make necessary corrections based upon following additional information.

(i) 80% of the electricity bill, 75% of insurance expired and 70% of Rent of Premises associated to Factory operations and the remaining amounts are applicable to Selling and Administrative activities.

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ACCOUNTANCY AND AUDITING, PAPER-I

(ii) Beginning Inventory (January 1, 2016) and Ending Inventory (December 31, 2016) in Rs. were:

 Finished Goods
 50000
 60000

 Work in Progress
 42500
 30000

 Raw Material
 7500
 18000

(iii) Factory overhead is applied @ Rs. 5 per machine hour. The total machine hours are 26400 during the year. Factory overhead variance is charged to cost of goods sold, finished goods and work in process ending inventories.

Required:

- (a) Prepare cost of goods manufactured and cost of goods sold statement indicating cost of goods sold at normal and at actual.
- (b) Prepare revised income statement
- (c) Explain the reason for difference between net profit as per Owner's Income statement and revised statement (prepared by you).
- Q. No. 6. (a) Delight Food Products produces Squash Cubes by continuous processing in three (10 departments i.e. A, B and C. During November 2017 Department B received 8000 cubes from the Department A (preceding department) and transferred 5500 cubes to Department C (next department). During the month there was a normal loss of 400 cubes at the end of process. Moreover, 600 cubes, 75% completed, were lost due to negligence of a worker in the B department. There was no work in process beginning inventory, the ending inventory was estimated as 60% completed. Following product costs were charged to the department during the month of November:

Cost from preceding department Rs. 16400
Direct Material 2000
Direct Labour 3625
Factory Overhead 5075
27100

It is noticed that all materials are added at the start of process in Department B.

Required: Prepare the Cost of Production Report for the month of November, 2017(for Department B).

(b) Ahmad Enterprises produces and sells the finest quality golf clubs in all of Clay County. (10) (20 The company expects the following revenues and costs in 2017 for its Elite Quality golf club sets:

Revenues (400 sets sold @ Rs. 600 per set)

Variable costs

Rs. 240,000

Rs. 160,000

Rs. 50,000

Required: How many sets of clubs (unit) must be sold for Ahmad Enterprises to reach their breakeven point?

Q. No. 7. XYZ Enterprises applies factory overhead @ 60% of direct labour cost. During the year 2016 (20) following actual costs were recorded:

Direct Labour cost 580000 Factory Overhead cost 428000

At the end of the year following balances appear in the some of the Control Accounts:

Cost of Goods Sold 1750000 Finished Goods 500000 Work in Progress 250000

Required:

- (i) Based upon above given information, determine under-applied or over-applied factory overhead.
- (ii) Pass general journal entry to close factory overhead applied account at the end of year.
- (iii) Pass general journal entries to dispose off under applied or over applied factory overhead in the following cases:
 - (a) The variance is considered as a significant amount
 - (b) The variance is considered as an insignificant amount
 - (c) The variance is considered as cause by poor scheduling of production and excessive spending

ACCOUNTANCY AND AUDITING, PAPER-I

(10)Q. No. 8. (a) Ayesha & Co. Prepared following estimates for the year 2017: Fixed factory overhead (in Rs) 450 000 Variable factory overhead (in Rs) 600 000 Direct labour hours 200 000 However, actual results for the cost for the year 2017 were recorded as follows: Fixed Factory overhead (in Rs) 450 000 Variable Factory overhead (in Rs) 680 000 220 000 Direct labour hours Required: based upon above given information, Calculate: Total Factory overhead variance (i) Capacity variance (ii) (iii) Budget variance (b) Calculate the total fixed cost of the shipping department of Areeba & Co. based upon the following information for the year 2016: Rs.800,000 75 percent of employees on guaranteed Salaries contracts Packaging Rs.400,000 depending on size of item(s) shipped Rs.500,000 depending on weight of item(s) shipped Postage Rs.250,000 annual lease Rent of warehouse space *****

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Roll Number

ACCOUNTANCY AND AUDITING, PAPER-II

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

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.
 - (ii) Attempt ONLY FOUR questions from PART-II by selecting 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) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
 - (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
 - (vi) Extra attempt of any question or any part of the attempted question will not be considered.
 - (vii) Use of Calculator is allowed.

<u>PART – II</u> SECTION – A (AUDITING)

- Q. No. 2. How an internal control system helps the management in conduct of their business affairs? (20) Explain the difference among internal check, internal audit and internal control.
- Q. No. 3. ABC Company is an audit and assurance firm, which has recently accepted the audit of XYZ. Explain the purpose of auditing financial statement of XYZ and the three elements of audit risk faced by the company.
- Q. No. 4. Due to the inherent limitations of audit, auditors are only able to offer 'reasonable assurance' over the truth and fairness of the financial statements rather than absolute assurance. Keeping in view the above statement, explain the limitation of audit of financial statement.

SECTION – B (BUSINESS TAXATION)

- Q. No. 5. (A) Explain the law regarding the definition of business and taxability of business income along with the relevant examples under section (18) of Income Tax Ordinance 2001.
 - (B) Mr. Atif is working as Chief accountant of a multi-national company. He received (10) (20) the following income during the tax year 2017. He is a non-filer.

Basic Salary	Rs. 12,00,000
Bonus	300,000
House Allowance	500,000
Conveyance Allowance	200,000
Utilities Allowance	100,000
Zakat Paid	180,000
Capital gain on sale of securities	70,000
(holding period more than 12 months but less than 24 months)	WWW.CIAIRIN
Agricultural Income	400,000

Required: Calculate his tax payable.

- **Q. No. 6.** (A) What is the scope of sales tax? What is the procedure for transfer of registration and (10) deregistration under Sales Tax Act, 1990?
 - (B) Mr Abdul Packages Ltd is a registered manufacturer of candies. Data regarding his (10) business is given below:

Taxable turnover to registered person	Rs. 5,000,000
Taxable turnover to non-registered person	18,000
Sales to retailers	50,000
Exempted sales	60,000
Supplies to DTRE registered person	25,000
Zero rated supply	70,000
Supplies donated	150,000
Taxable purchases from registered person	200,000
Taxable purchases from non-registered person	90,000
Taxable Purchases from wholesaler	60,000
Imported raw material specified in SRO 644(1) 2016	100,000
Sales tax paid on PTCL dues	9,000
Sales tax paid on electricity bill	3,000

Required: Calculate the sales tax liability for July 2016

ACCOUNTANCY AND AUDITING, PAPER-II

SECTION-C (BUSINESS STUDIES AND FINANCE)

- Q. No. 7. (A) Information technology is perceived as an important source of future economic (10) prosperity and employment growth. Explain the role of information technology in business organisation in Pakistan's scenario.
 - (B) You have been hired as a financial advisor to Raheel Abbas. He has received two offers for playing professional basketball and wants to select the best offer, based on considerations of money only. Offer A is a Rs.10m (offer for Rs.2m a year for 5 years). Offer B is a Rs.11m (offer of Rs.1m a year for four years and Rs.7m in year 5).

 Required: Calculate the present value of each contract by assuming a range of interest rate (8% 14%). What is your advice regarding the contracts.
- Q. No. 8. (A) Define financial markets and explain the features and classification of financial (10) markets.
 - (B) ABC Company is considering a new product line to supplement its range line. It is anticipated that the new product line will involve cash investment of Rs.700,000 at time 0 and Rs. 1.0 million in year 1. After tax cash inflows of Rs. 250,000 are expected in year 2, Rs 300,000 in year 3, Rs. 350,000 in year 4, and Rs. 400,000 each year thereafter through year 10. Through the product line might be viable after year 10, Company prefers to be conservative and end all calculations at that time.

 Required: (a) if the required rate of return is 15% what is the net present value of the project. Is it acceptable?

(b) What is its internal rate of return? (c) What would be the case if the required rate of return was 10%? ******

(20)



Roll Number

AGRICULTURE & FORESTRY

	OWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 2 MAXIMUM MARKS = 8	
NOTE: (i) (ii)	Part-II is to be attempted on the separ Attempt ONLY FOUR questions fro SECTION. ALL questions carry EQU	om PART-II by selecti	ng TWO questions from EAC	СН
(iii)	All the parts (if any) of each Question		one place instead of at differ	ent
	places.	com www.ciamo.com	www.riimoo.com www.riimoo.	
` /	Candidate must write Q. No. in the An			
(v)	No Page/Space be left blank between be crossed.	the answers. All the bl	ank pages of Answer Book m	ust
(vi)	Extra attempt of any question or any p	part of the attempted que	estion will not be considered.	cóm
(\(\frac{1}{1}\)	Extra accompt of any question of any p	part of the attempted que	sston will not be considered.	COUNT
	PA	ART – II		
		TION – A		
Q. No. 2.	Global warming is one of the major the short and long terms, do you suggest benefits of climate change on differencessary.	t to mitigate the negati	ve impacts and to use the	(2
Q. No. 3.	Pakistan is suffering from serious eagricultural sciences and the Government			(2
Q. No. 4.	Discuss bio-fortification. How is it he to combat with malnutrition? Explain		numan nutrition needs and	(2
Q. No. 5.	Biotechnology offers several opportu- present and future challenges. Discuss	1 0	-	(2
	SEC	TION – B		
Q. No. 6.	Green fodder is an excellent and to Pakistan, but it is not available in er Pakistan, how these could be used to it	nough quantities. Many	rangelands are present in	(2
Q. No. 7.	Forest area in Pakistan is not according government can do to improve forests	_	-	(2
Q. No. 8.	Discuss the current situation and sug	ggest prioritize strategie	s to improve forest based	(2

wildlife in Pakistan



Roll Number

ANTHROPOLOGY

TIME ALI PART-I(M	LOWED: THREE HOURS (CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	-		
	All the parts (if any) of each Questio places.Candidate must write Q. No. in the An	n PART-II. ALL quests in must be attempted at swer Book in accordance the answers. All the b	one place instead of at dee with Q. No. in the Q.Paplank pages of Answer Boo	per. ok must		
	imoccom www.eiimoccom www.eiimo	PART-II				
Q. No. 2.	Define anthropology. How is it differe of approach and methodology?	nt form other fields of	Social Sciences in terms	(20)		
Q. No. 3.	Discuss the issue of objectivity and subjectivity in the field of social research. Explain whether or not objective research is attainable in social anthropology. (20)					
Q. No. 4.	Culture develops in response to the basic needs of human beings. Explain. (20)					
Q. No. 5.	Economics systems evolved through reciprocity to redistribution and market system. (2 Explain.					
Q. No. 6.	Religion is a significant commonality controlled to use religion for national in		low sectarianism can be	(20)		
Q. No. 7.	Elaborate different types of kinship s Pakistan. Explain.	ystems. Kinship affect	political allegiances in	(20)		
Q. No. 8.	Write short notes on any FOUR of the	following:	(5 each)	(20)		
	(a) Rural-urban migration					
	(b) Participant observation					
	(c) Types of family					
	(d) Main branches of anthropol	ogy				
	(e) Cultural relativism					
	(f) Applied anthropology and o	community developmen	t			
	**	*****				



Q. No. 1.

TIME ALLOWED: THREE HOURS

(vi) Use of Calculator is allowed.

places.

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

Roll Number

(10)

MAXIMUM MARKS = 100

Page 1 of 2

APPLIED MATHEMATICS

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

(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

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

NOTE:(i) Attempt ONLY FIVE questions. ALL questions carry EQUAL marks

If $\psi = Sin\frac{(kr)}{r}$, then show that $\nabla^2 \psi + k^2 \psi = 0$. Calculate the Line Integral $\int_c A.dr$, where $A = \frac{-yi + xj}{x^2 + y^2}$, and the curve C is (10) given by the equations $x^2 + y^2 = a^2$ and Z = 0. Forces of magnitude P, 2P, 3P, 4P act respectively along the sides AB, BC, CD, Q. No. 2. (10)DA of a square ABCD, of sides a, and forces each of magnitude ($8\sqrt{2}$) P act along the diagonals BD, AC. Find the magnitude of the resultant force and distance of its line of action from A. A uniform ladder, of length 70 feet, rests against a vertical wall with which it **(b)** makes an angle of 45°, the coefficient of friction between the ladder and the wall and the ground respectively being $\frac{1}{3}$ and $\frac{1}{2}$. If a man, whose weight is one half that of the ladder, ascends the ladder, where will he be when the ladder slips? A particle moves in a straight line with an acceleration kv^3 . If its initial velocity is Q. No. 3. (10)u, find the velocity and the time spent when the particle has travelled a distance Derive the Tangential and Normal components of the velocity and acceleration. (10)Q. No. 4. Solve the following Cauchy- Euler Equation (10)(a) $x^{2} \frac{d^{2}y}{dx^{2}} - 2x \frac{dy}{dx} - 4y = 0$ Convert the following Bernoulli Differential Equation into standard form and **(b)** (10) $\frac{dy}{dx} + \left(\frac{xy}{1-x^2}\right) = xy^{\frac{1}{2}}$. Q. No. 5. Convert the following Ordinary Differential Equation into standard form and then (a) solve using Method of Variation of Parameters. $x^2y'' - 3xy' + 3y = 2x^4e^x$ Check whether the following Ordinary Differential Equation is an Exact Equation (b) (10)or not. If yes, then solve.

 $(3x^2y+2)dx+(x^3+y)dy=0$

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APPLIED MATHEMATICS

Find the Fourier Series of f on the given interval. (10)

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

Solve the following Partial Differential Equation subject to the conditions given.

$$a^2 \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial t^2}, \qquad 0 < x < L, \qquad t > 0$$

$$u(0,t) = 0,$$
 $u(L,t) = 0,$ $t > 0$

$$u(x,0) = f(x), \frac{\partial u}{\partial t} = g(x)[at \ time \ t = 0], \quad and \quad 0 < x < L.$$

I = [1,4]

Use Newton-Raphson method to find solution accurate to within 10-4 for the non-Q. No. 7. (a) linear equation. $x^3 - 2x^2 - 5 = 0$

(b) Use Lagrange Interpolating polynomial of degree two to approximate
$$f(8.4)$$
, If $f(8.1) = 16.94410$, $f(8.3) = 17.56492$, $f(8.6) = 18.50515$, $f(8.7) = 18.82091$.

- Approximate $\int_0^1 \frac{dx}{1+x^2}$ using Trapezoidal rule and Simpson's rule with n=4. (10) Q. No. 8. (a) Also compare your results with the exact value of the integral.
 - Use Euler's method to approximate the solution of the following initial value **(b)** (10)

$$y' = \frac{1+y}{t}$$
, $1 \le t \le 2$, with $y(1) = 2$, $h = 0.25$



Roll Number

ARABIC

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80
NOTE: (i) Part-II is to be attempted on the separation (ii) Attempt ONLY FOUR questions of language except where specified in the (iii) All the parts (if any) of each Question places. (iv) Candidate must write Q. No. in the Art (v) No Page/Space be left blank between be crossed. (vi) Extra attempt of any question or any process.	rom PART-II. Answer e question paper. ALL quent must be attempted at on must be accordance the answers. All the blar	estions carry EQUAL marks. ne place instead of at different with Q. No. in the Q.Paper. nk pages of Answer Book must
<u>PA</u>	ART – II	
ذكر اهم شعراء النقائض مع ذكر عيوب ومحاسن (20)	قائض واسباب انتشارها مع	سوال نمبر2: اكتب عن شعر النقائض ـ شعر النقائض ـ
العصر الجاهلي، مع ذكر انواع الشعر الجاهلي، (20)	ينية في الجزيرة العربية، في ا الشعر الجاهلي كاملا ـ	
دباء الشرق والتفوق عليهم، وماهي سمات الالفاظ (20)		سوال نمبر 4: لماذا كان ادباء الاند والاساليب في الشعر
مع ذكر الاسباب التي ادت الى ظهور الرومانسية (20)		سوال نمبر5: ما الفرق بين الروما في الادب العربي ال
يدة - يا تمسك الماء الغرابيل راعيدها إلا الأباطيل بن طوال الدهر تعجيل ماني والأحلام تضليل	الذي زعمت إلا كم ب لها مثلا وما مو ن في أبد وما له	سوال نمبر 6: اشرح الابيات مع ذ وما تمسك بالوصل كانت مواعيد عرقوا ارجو وأمل أن يعجا فلا يغرنك ما منت و
(20)	عه في العربية مع ذكر امثلة	موال نمبر 7: عرف الاشتقاق وانوا
، بــــــــــــــــــــــــــــــــــــ	يياة واعمال الشاعر الذي لقب	سوال نمبر8: اكتب بالتفصيل عن ح

FEDERAL PUBLIC SERVICE COMMISSION

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

Roll Number

BALOCHI

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

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.
 - (ii) Attempt ONLY FOUR questions from PART-II. Answer must be written in respective language except where specified in the question paper. ALL questions carry EQUAL marks.
 - (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
 - (iv) 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	moo.com
(20)	جبل ۽ دائليس سرلال شديكيس اسد (100) گيزاني چينا كے (مضمون) ۽ پيشة بگن اِت. (i) بلو چي بنرا نک ۽ جنين آ د مانی (زائفا يانی) کرد (ii) چائينه پاکستان کور پيرور (CPEC) ۽ گوادر ۽ سرااثرات بلوچيتان ۽ سرا گوسيد گيس ختي سالانی سياسي جاورانی (مال نی) اُثرات (iii) بلوچيتان ۽ سرا گوسيد گيس ختي سالانی سياسي جاورانی (مال نی) اُثرات (iv) آ ڻار قديمه ۽ "مهر گڙھ ڏھاؤڙ" ۽ ارزشت (ايميت)	سوال فمبر2:
(20)	جہل ء دانتھیں بلوپچ البزا تک عشائزاں شہ کے شائزی عاقر م (فن) عمراہ شند کین اِت۔ (i) گل خان نصیر (ii) بشیر بیدار (iii) اللہ بخش بُد دار (iv) سیرظہور شاہ ہاشی یا بلوپچ ابزا تک خابرادگری (تختید) ع بن داد ہُ و بحروی عظما ہے دڑ ہ مجند ات درشان کھن اِت۔	سوال فبرر3:
(20)	جہل ء واقعیں مہرانی (رومانوی) واستان ۂ شہ کے سراجشتہ بکن اِت۔ (i) شہد واو و مبتاز (ii) شرکین و و تین (iii) حمل و ماہ سنج (iv) مرکن و و تین (iv) عربت و مبرک (v) جبل عرب و کراناز اور کراناز عبل عرب و کہاناز جبل ع و اتھیں جنگی واستان ۂ شد کے سراجشتہ بکن اِت۔ جہل ع و اتھیں جنگی واستان ۂ شد کے سراجشتہ بکن اِت۔ (i) بالاج کورتیج (ii) حمل کارتی (iii) سرجا کررند (iv) و معتمی مری	موال قبر4:
(20)	جہل ہوواتی رہم ورواج) ہے شدو (2) ہو باہت وجھتے یکن اِت۔ (i) ربالو (ii) ساتگ (iii) ہنی بند (رائتی ھنی) (iv) وُرِّ کی ھنی (v) بجاری (vi) جُل بندی (یا یادی آرائ (قوم) وَبداک بولگ و جگرتاں مُرک (مِرگ) و ہے دودور بیدگ (رسم ورواج) آنت بھتے یکن اِت بلوچ رائی (قوم) وَبداک بولگ و جگرتاں مُرک (مِرگ) و ہے دودور بیدگ (رسم ورواج) آنت بھتے یکن اِت	سوال فبر5:
	(الف) جمل ع والمحمل أز (ذكر) تناوك (مونث) عَ مكر دينيت. (i) جَبِك (ii) ذَال (iii) بَكُ (vi) بِشِار (v) زيان (vi) بانور (vii) بَنَن (vii) بَنَن (vii) بار (x) مات (x) وَ يَحِيَّ (بِنَ جَبِلَ عِ وَالْحَمْمِينَ مِيكَ (واحد) عَ بِحَارَ (بَعْعَ) عَ مُكر و بنيت. (ب) جمبل ع والحمم ميك (واحد) عَ بِحَارَ (بَعْعَ) عَ مُكر و بنيت. (i) كروس (ii) پُس (iii) بِشِيقُ (vi) حَتَمَ (v) تَاك (vi) مُود (vii) هَذِيكَ اللهِ الهِ ا	سوال نمبر 6:

BALOCHI

جهل ءِواتَقيس بلوچيءَ ما انگريزي ترايك (ترجمه) بكن إت. (10)

بوال تمبر:8

The Novel tells a story that is the fundamental aspect without which it could not exist that is the highest factor common to all novels. The nature of characters pulls what they do, Pulls what happens to them as a result of their actions, plus whey they do what they do equals the theme of a story.

10)

:(_)

کجام قصبه ءِسرجیس بذانت ءُآئی ہواریں تاثر ء یک تک وبہرے سرجم نہ کنت بلکن ءُکلیں تک و پہنات ء بہر ہواری ءُ قصبه ءَسرجم کن انت ء تاثر ہے پشت گئے انت ۔ ناول قصبه ءِ دیمروی کرتگیں شکل اِنت دتی دیمروی ءِ اے عمل ءَ ناول و قصبه پشت نہ گیتگگ بلکن ءُ تذکیت ءَ ناول گول قصہ ءَ دیماروان اِنت ۔

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Roll Number

BOTANY

		THREE HOUR MAXIMUM 30		PART-I (MCQS) PART-II		MARKS = 20 MARKS = 80
www.cz	Attempt (i) All the places. (i) Candida (ii) No Pag (iii) be cross	te must write Q. Ne/Space be left bled.	uestions from I each Question No. in the Answank between the	The Answer Book. PART-II. ALL quests must be attempted a prediction of the attempted and the tof the attempted quests of the attempted quests.	t one place instead ce with Q. No. in to plank pages of Ans	d of at different the Q.Paper. swer Book must
			PA	ART-II		
Q. No. 2.	Discuss b	piological and eco	nomic importa	nce of Fungi.		(20)
Q. No. 3.	Describe	main features of	Gymnosperms	and explain life cycle	e of Pinus.	(20)
Q. No. 4.	What are	main types of Po	llution? What r	nay be the measures	for its control?	(20)
Q. No. 5.	-	CAM Photosynt	thesis contrast	ing it to C ₄ Phot	osynthesis in ter	ms of (20)
Q. No. 6.		the evidences in for its support?	support of Ev	olution? What contri	ibutions modern g	enetics (20)
Q. No. 7.	What is t	he evidence for se	emiconservative	e replication of DNA	?	(20)
Q. No. 8.	Write sho	ort notes on the fo	llowing:		(5 marks	s each) (20)
		(a) Ultrastruct	cure of cell men	nbrane		
		(b) Speciation	www.czzmoo.co			
		(c) Vernalizat	ion			
		(d) Classes of				
			****	****		



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

Roll Number

BRITISH HISTORY

TIME ALL PART-I(MO		D: THREE HOURS MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
NOTE: (i)		II is to be attempted on the sepa		www.gramou.com www.eramou).com
(ii)		npt ONLY FOUR questions fr		ing TWO questions from EA	CH
(000)		TION. ALL questions carry EQ		1	
(iii)		ne parts (if any) of each Question	on must be attempted a	t one place instead of at diffe	erent
(*)	places		D = 1	:1 0 N : 1 0 P	s.com
` /		date must write Q. No. in the An			
(v)		age/Space be left blank between	the answers. All the b	plank pages of Answer Book i	nust
(vi)	be cro	attempt of any question or any	nort of the attempted au	action will not be considered	o.com
(vi)	Extra	attempt of any question of any	part of the attempted qu	destion will not be considered.	
		www.ciimno.com www.ciim	PART – II		
		SE	CTION – A		
Q. No. 2.		t did lead to the occurrence olose of 17 th century A.D. in B			(20
Q. No. 3.	"The	e 18 th century A.D. witnessed	the Emergence Rise	e and Growth of the two	(20
Q. 110. J.		ements (Agrarian and Indus			(2)
		ish people in particular and la			
	_	tatement.	ater on, or the world r	in general. Comment on	
	the s	tatement.			
Q. No. 4.	Shed	l ample light on the Interior a	s well as Exterior pol	icy of Sir Robert Peel as	(20
	Britis	sh Premier with particular em	phasis on Irish issue.		
Q. No. 5.		t measures were taken for the lecades?	e Democratisation of	British Parliament round	(20
		<u>SE</u>	CTION – B		
Q. No. 6.		Britain put a halt to "The prive and negative aspects?	policy of Splendid Is	solation"? What were its	(20
Q. No. 7.	subse	r it is believed by certain circ ervient to US-Line of Action subsequent years? Do you agr	during Cold War and		(20
Q. No. 8.	Write	e short Notes on any TWO of	the following:	(10 each)	(20
	(a)	Sir Winston Churchil	com www.elamoo.com		
	(b)	Britain's role in EU			
	(c)	Lady Diana			
		•	****		

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Roll Number

BUSINESS ADMINISTRATION

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) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
- (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
- (vi) Extra attempt of any question or any part of the attempted question will not be considered.
- (vii) Use of Calculator is allowed.

PART - II

Q. No. 2. Daud Tools, a manufacturer of lathe tools, is currently selling a product for \$10 per unit. Sales (all on credit) for last year were 60,000 units. The variable cost per unit is \$6. The firm's total fixed costs are \$120,000.

(20)

The firm is currently contemplating a relaxation of credit standards that is expected to result in the following; a 5% increase in unit sales to 63,000 units; an increase in average collection period from 30 days (the current level) to 45 days; an increase in bad debt expenses from 1% of sales (current level) to 2%. The firm determines that its cost of tying up funds in receivables is 15% before taxes.

Question: Determine whether it would be profitable for Daud Tools to relax its credit standards. To arrive at your decision, show the calculation of;

- (a) Additional profit contribution from sales
- (b) Cost of marginal investment in account receivables
- (c) Cost of marginal investment in bad debts

Q. No. 3.	ABC Industries	(20)
	Balance sheet ending December 31, 2016	

Assets	<u>\$</u>	<u>Liabilities and</u> <u>stockholder's Equity</u>	<u>\$</u>
Cash	32,720	Accounts Payable	120,000
Marketable securities	25,000	Notes payable	
Accounts receivable	N N N 2222222000	Accruals	20,000
Inventories	www.htmminecom	Total current liabilities	
Total current assets	www.caamoo.com	Long-term debt	LINEAU COM
Net fixed assets		Stockholder's equity	600,000
Total assets	9 9 9	Total liabilities and	
		stockholder's equity	CATHOOLOON SON

The following financial data for 2016 is also available;

- (a) Sales totalled \$1,800,000.
- (b) The gross profit margin was 25%.
- (c) Inventory turnover was 6.0.
- (d) There are 365 days in the year.
- (e) The average collection period was 40 days.
- (f) The current ratio was 1.60.
- (g) The total asset turnover ratio was 1.20.
- (h) The debt ratio was 60%.

Complete the 2016 balance sheet for ABC Industries using the given information.

BUSINESS ADMINISTRATION

Q. No. 4. Identify the major drivers of supply chain performance. Discuss the role each driver (20)plays in creating strategic fit between supply chain strategy and the competitive strategy. Define the key metrics that track the performance of the supply chain in terms of each driver. Q. No. 5. Brand positioning is the act of establishing a distinctive image of a product or offering (20)in the minds of customers. How do marketers analyse competition and differentiate their products for successful positioning? How do consumers process and evaluate prices? What is the 5-step process of setting Q. No. 6. (20)the initial price for products or services? When and how should a company initiate a price change, i.e. introduce a price cut or price increase? Organizational structures are designed in two major forms; traditional and Q. No. 7. (20)boundaryless organizations. Discuss their different types, characteristics as well as their relative advantages and disadvantages, in comparison to each other. O. No. 8. What is Training Needs Analysis (TNA), why is it important to conduct it, and what (20)should it evaluate? What are the types of training methods and which training method should be employed for each type of training needs?

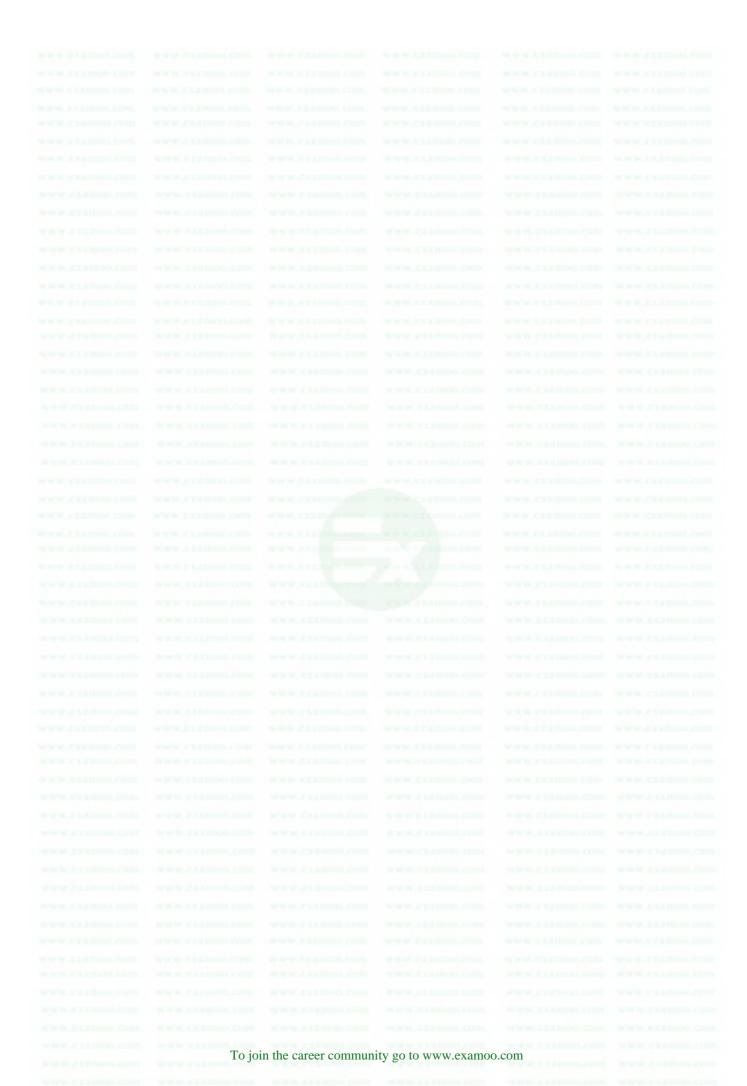


Roll Number

CHEMISTRY, PAPER-I

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 20**PART-I(MCOS): 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 (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. Extra attempt of any question or any part of the attempted question will not be considered. (vii) Use of Calculator is allowed. **PART-II** Explain de Broglie's hypothesis and derive its equation. How Davisson and Q. No. 2. (10)Germer proved the dual nature of electron? **(b).** Explain transport number. How it can be determined by Hittorf's method for Ag⁺ (10)ions in AgNO₃ solution? (a). Explain the working of quinhydrone electrode. O. No. 3. (5) (b). Calculate the standard heat of formation of propane (C₃H₈) if its heat of (5) combustion is $-2220.2 \text{ kJ mol}^{-1}$. The heats of formation of $CO_2(g)$ and $H_2O(\mbox{$^{\color{l}}$})$ are -393.5 and -285.8 kJ mol⁻¹ respectively. (10)Describe the criteria of spontaneity of a chemical process. Explain in terms of (c). change in entropy, enthalpy and free energy with derivation of necessary equations. Discuss the factors which can affect the rate of a chemical reaction. Q. No. 4. (a). (5) Explain Arrhenius equation. Discuss Arrhenius concept of activation energy and (b). (8) explain it by graphical representation. (c). Explain enzyme catalysis with examples. Also give some characteristics of this **(7)** catalysis. O. No. 5. What are colloids? How are they classified? Describe how colloidal solution of **(8)** (a). sulphur can be prepared? What is meant by confidence limits? Seven replicate analysis for mercury in natural gas condensate gave following results in ng/mL: 21.9 21.5 19.9 21.3 21.7 23.8 24.7 Calculate the 95% and 99% confidence limits for these measurements. Explain R_f value. Suppose that components of a mixture are separated by paper chromatography using a non-polar solvent like hexane. Describe and explain how the polarity of a compound in the mixture will affect its R_f value? O. No. 6. **(7)** What is electrophoresis? Explain its working principle and describe its different (a). applications as a separation and characterization technique. Explain the paramagnetic behavior of O₂ molecule on the basis of molecular **(6)** orbital theory. Explain why the existence of He₂ molecule is not possible on the basis of MOT? (c). Explain the molecular shape of $[Ni(CN)_4]^{2-}$ with the help of valence bond theory.

Also discuss its magnetic behaviour.



CHEMISTRY, PAPER-I

Q. No.	/. (a)		ing VSEPR theory 2. What are oxidat	, , , , , ,	•	nd draw the structi	ire of (5)
	(b)	0.1	-	nia into 100 mL	_	ammonium sulpha b of ammonia is	
	(c)	. Ex	plain soft and hard	acids and bases (S	SHAB) concept w	ith examples. How	is it (10)
			e to explain the sta				
Q. No.	8. (a)	0.000	www.czamoo.com	www.cisinoo.com		ence bond theory?	
		_	lain crystal field spalculated?	plitting. How crys	stal field stabilizat	ion energy of a co	mplex
	(b)		rite systemic name K ₄ [NiF ₆], K ₃ [Fe(C	C	1	$K_2[Cu(CN)_4]$	(5)
	(c)				idation state of the	e metal ion in each	of the (5)
		abo	ove stated complex	es.			
				****	****		
							Daga 2 of 2

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Roll Number

CHEMISTRY, PAPER-II

TIME ALL	OWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(M	CQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80
NOTE: (i)	Part-II is to be attempted on the separ	rate Answer Book.	
(ii)	Attempt ONLY FOUR questions from	PART-II. ALL question	s carry EQUAL marks.
(iii)	All the parts (if any) of each Question	n must be attempted at or	ne place instead of at different
	places.		
(iv)	Candidate must write Q. No. in the Ans	swer Book in accordance v	with Q. No. in the Q.Paper.

be crossed.

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

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

(b) W (i) (i) (i) (i) (i) (i) (v)	Complete the following reactions. (Yes a complete the following reacti	(10) (5+5) 8×2=16)	(20)
(i) (i) (i) (i) (i) (v)	Tautomerism (ii) Hyperconjugation. Complete the following reactions. CH ₃ -CH=CH ₂ + KMnO ₄ H_2O ? i) CH ₃ -CH=CH ₂ + $Ni\Delta$ Pressure ii) CH ₃ -CH=CH ₂ + dil. H ₂ SO ₄ V) CH ₃ -CH=CH ₂ + CH ₃ - C-H		(20)
(i (i (i (i (v) $CH_3-CH=CH_2 + KMnO_4 $ H_2O ? i) $CH_3-CH=CH_2 + Ni\Delta$ $Pressure$ ii) $CH_3-CH=CH_2 + dil. H_2SO_4$ O v) $CH_3-CH=CH_2 + CH_3 - C-H$	8×2=16)	
(i (i (v	ii) CH_3 - CH = CH_2 + dil. H_2SO_4 \longrightarrow O v) CH_3 - CH = CH_2 + CH_3 - C - H \longrightarrow		
(i (v	ii) CH_3 - CH = CH_2 + dil. H_2SO_4 \longrightarrow O v) CH_3 - CH = CH_2 + CH_3 - C - H \longrightarrow		
(1)	WW.CIAMOR.COM WWW.CIAMOR.COM WWW.CIAMOR.COM WWW.CIAMOR.COM		
	CH_2 - $CH=CH_2+Br_2$ CCI_4		
(7	$Vi) CH_3 - C \equiv CH_3 + Na / lig NH_3 \longrightarrow$		
(7	vii) $CH \equiv CH + NaNH_2 \longrightarrow$		
7)	Viii) $CH \equiv CH + H_2O$ $H_2SO_4 / HgSO_4 >$		
` /	• 1 1	(4)	(20)
	1		(20)
(i (i	Configuration and conformation Enantiomer and Diastreomers	(4×3=12)	
,	was a full compared to the com	(8)	(20)
` '		(10)	
(b) D	viscuss future of cement industry in Pakistan.	(10)	(20)
		(10) (5)	
		(5)	
(a) B (c) H	leers Lamberts Law. (b) Wood Wards Fieser Rule looks Law (d) Basic principle of NMR?	arks each)	(20)
	(v)	(viii) CH = CH + H ₂ O H ₂ SO ₄ / HgSO ₄ (b) 1-Butyne forms a precipitate with an ammonical solution of silver nitrate where 2-Butyne does not. Why? Explain electrophilic substitution reaction mechanism with the help of: (i) Nitration (ii) Sulphonation. (a) Distinguish between: (i) Configuration and conformation (ii) Enantiomer and Diastreomers (iii) R. Convention and S. Convention (b) Define specific rotation. How do you measure using polarimeter? (a) What do you mean by the setting of cement. (b) Discuss future of cement industry in Pakistan. (a) Explain Aldol condensation reaction with examples. (b) What are proteins? (c) Explain Bio synthesis of cholesterol. Explain the following: (4 m (a) Beers Lamberts Law. (b) Wood Wards Fieser Rule (c) Hooks Law (d) Basic principle of NMR?	(vii) CH ₃ − C ≡ CH ₃ + Na / lig NH ₃ (viii) CH ≡ CH + NaNH ₂ → (viii) CH ≡ CH + H ₂ O H ₂ SO ₄ / HgSO ₄ (b) 1-Butyne forms a precipitate with an ammonical solution of silver nitrate where 2-Butyne does not. Why? (4) Explain electrophilic substitution reaction mechanism with the help of: (i) Nitration (ii) Sulphonation. (a) Distinguish between: (4×3=12) (i) Configuration and conformation (ii) Enantiomer and Diastreomers (iii) R. Convention and S. Convention (b) Define specific rotation. How do you measure using polarimeter? (8) (a) What do you mean by the setting of cement. (10) (b) Discuss future of cement industry in Pakistan. (10) (a) Explain Aldol condensation reaction with examples. (5) (c) Explain Bio synthesis of cholesterol. (5) Explain the following: (4 marks each) (a) Beers Lamberts Law. (b) Wood Wards Fieser Rule (c) Hooks Law (d) Basic principle of NMR?



Roll Number

(3)

(3)

(2)

(2)

(2)

(5)

COMPUTER SCIENCE, PAPER-I

TIME ALI PART-I(M	LOWED: THREE HOURS (CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80
NOTE: (i) (ii)	Part-II is to be attempted on the separate A Attempt ONLY FOUR questions fro SECTION.		TWO questions from EACH
(iii) (iv) (v) (vi	Candidate must write Q. No. in the Answe No Page/Space be left blank between the a	r Book in accordance with Q nswers. All the blank pages	O. No. in the Q.Paper. of Answer Book must be crossed.
Q. 2. (a)	How many layers are in the TCP/IP stace	PART-II SECTION-I k? What are the names?	(4)
(b)	How digital evidences can be preserved examples of digital devices commonly u		rite in details by taking (4)

(g) If time slice is of 50 milliseconds and context switch requires a microsecond, how many processes can the machine service in a second?
 (2)
 Q. 3. (a) Write a program grade average calculator, User will input marks for five subjects and

(f) Ali is telling Ahmad that he is representing a -ve number and its most significant bit is 1,

Ahmad immediately shouted you are representing numbers using 2's compliment. True

(e) Why do modern processors use more power when their clock frequency is increased?

- program will output the average of its marks. Print appropriate message on the base of its mark's average e.g.; Well done, Keep it up, Better luck next time etc.

 (b) Given that i,j,k,n & m are integer variables. Write a condition such that:
 - (b) Given that i,j,k,n & m are integer variables. Write a condition such that:
 i- hello is only printed when, any of the following conditions are met: i is twice the value of j, j is smaller than k and less than n, or m is negative.
 inti,j,k,n,m; cin>>i>>j>>k>>n>m;

inti,j,k,n,m; cin>>i>> if() cout<<"hello";

(c) What are the responsibilities of Operating system kernel?

(d) List down any four best practices for coding standards.

- ii. hello is only printed when i does not lies in the interval 6-9
 inti; cin>>i;
 if(
 cout<<"hello";</pre>
- (c) Write equivalent instruction to following instruction without the use of += operator: where w,z are integers. (1)

w+=2*z+4;

(d) Predict the values of variables a & b after every instruction
integer a=5 b=6

a = (b++) + 3;

or False. And why?

(e) Complete the code such that it prompts the user for +ve number n. Then displays the output.(whatever the value of n is)(HINT: instead of triangles of stars its triangles of increasing numbers)[marks

1 2 3 4 . . . n

1 2

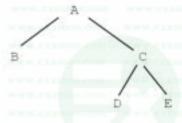
COMPUTER SCIENCE, PAPER-I

```
for n=4 it will print
1 2 3 4
1 2 3
1 2
1
void main()
{
int n; cin>>n;
// your loops will go here
}
```

(f) In following code replace the character at posth location in the string st with the ,character ch. For example in string helloworld replacing 2nd character with i would result in hilloworld

```
void main()
{char st[15]; int pos; char ch;
int size=0;
cin>>st;
cin>>pos>>ch;
while(st[size]!='\0')
{
    size++; // calculating length of current string
}
// write your code here
}
```

Q. 4. Consider the inheritance hierarchy shown below. Each part of this question is independent.

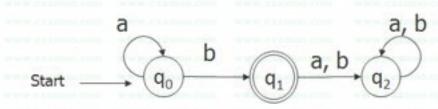


- (a) In which class(es) would it make most sense to have protected members? Which class(es) would be able to access those protected members directly? (5)
- (b) Which class(es) can access private members of class C directly? (5)
- (c) Suppose class C contains a pure virtual function. Suppose we wish to instantiate objects of this hierarchy. Which class(es) are or could be abstract and which are concrete?
- (d) Consider the following list of classes: Car, SteeringWheel, Vehicle, Van, Minivan, AudioSystem, ParkingLot. Your task is to describe all of the *is-a* and *has-a* relationships between these classes. Include an inheritance hierarchy for all classes that fit. Fill in the table with *is-a* or *has-a* relationship while leaving the cells empty where no relation is applicable.

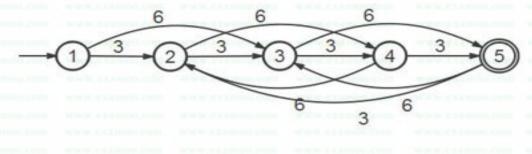
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Mini Van							
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Audio System	2 z 1000. com	WWW.01	a.moo.com	www.ciam	na.com wa	w.caamon.co	
Parking Lot	ELETTIOO, CONS	WWW.CI	amoo.com		ig_com we	w.cxamoo.cc	

SECTION-II

- (a) What is dangling pointer? Q. 5. **(3) (b)** What data structure would employ to build a text editor and why? **(5)** (c) Random insertion of nodes into a binary search tree would result in what types of tree **(7)** shape. Elaborate. (d) How would you modify a link list based queue so that first and last node can be accessed (5)
- in a constant time regardless of data nodes in the queue?
- (a) Define balanced tree both for AVL and Binary search tree. O. 6. (4) (b) What is informed or heuristic search what type of algorithm is used to do such a search? **(6) (5)** (c) Differentiate between graph and trees. Which is special case of the other?
 - (d) Explain what type of problems can be solved by genetic algorithm. **(5)**
- **Q.** 7. (a) Outline the difference between software verification and software validation. **(4)** (b) Give an outline of the unit testing process for verification. **(4)** (c) Agile Development is a process that values responding to change over following a plan. **(4)** Discuss three issues a Software Engineer should be mindful of when adopting this approach during software development. **(4)** (d) What type of project is not suited to incremental methods? **(4)** (e) Outline the difference between Black box and White box testing.
- Q. 8. (a) What is the difference between lexers and parsers? (5) (b) Write a grammar (BNF) for the language of palindromes. **(5)**
 - (c) Here DFA is given for the language L find the DFA for L² (5)



(d) Convert the following DFA to a RE:





Roll Number

COMPUTER SCIENCE, PAPER-II

TIME ALI PART-I(M		D: THREE HOURS MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
NOTE: (i)	Part	-II is to be attempted on the separ	rate Answer Book.	WW.EIRMOO.COM WWW.EIRMOO.CO	101
(ii)		mpt ONLY FOUR questions from		ng TWO questions from EA	CH
	SEC	TION. ALL questions carry EQU	JAL marks.	ww.clamon.com www.clamon.com	
(iii	i) All th	ne parts (if any) of each Question	n must be attempted at	one place instead of at diffe	rent
	place			W. A. C. S.	
	*	idate must write Q. No. in the An			
(v)		Page/Space be left blank between	the answers. All the bl	ank pages of Answer Book n	nust
(wi		ossed. a attempt of any question or any p	part of the attempted aug	estion will not be considered	
(vi) Exu	a attempt of any question of any p	bart of the attempted que	stion will not be considered.	
		PA	RT – II		
			ΓΙΟΝ – A		
Q. No.2.	(A)	Briefly describe the function	nality of the followin	a CPII special-nurnose	(
Q. 110.2.	(A)	registers: Instruction Registe			(
		Program Counter (PC).	i (int); Wiemory Date	register (WDR) und	
	(B)	Differentiate between Address,	Data and Control bus.		(
		Discuss instruction pipelining i			(
	100.000	www.examoo.com www.examoo.com		ww.csimon.com www.csimon.co	1111
Q. No.3.	(A)	Differentiate between hub, brid	O .		(
	(B)	Discuss how Network Address	,	2	(
	(C)	Elaborate the working of multip	olexing/de-multiplexing	at the transport layer.	(
Q. No.4.	(A)	There are three processes P_A , Resources R_A and R_B have instances. P_A is holding one in P_B is holding R_A and has requerequested an instance of R_C .	one instance each whinstance of R_C and has rested for R_B . R_B is allocated	le resource R_C has two equested for R_A . Process atted to P_C which has also	(
		graph. Discuss whether there i	-		
		blocked?			
	(B)	In the context of Paging, considered i.e. 20 bits Virtual Page Number are there and what is the size of find the virtual page number contains 0x900DF, find the phy	ers and 12 bits of offset. of each page? Given the and offset. If the resp	How many virtual pages e virtual address 0x7589,	(
	(C)	In the context of I/O management		n Pooling and Interrupts.	(
		Sec	tion – B		
WWW.CLIN	me com	www.cramoo.com www.cramoo.com	n www.cramoo.com w	WW.CIARROO.COM WWW.CIARROO.CO	-11
Q. No.5.	(A)	Given two relations R and S , and $M > N > 0$, give the minimal the resulting relation produce	num and maximum pos	sible sizes (in tuples) for	(
		expressions.			
		i. $R-S$			
		ii. $R \cup S$			
		iii. $R \cap S$			
		iv. $R \bowtie S$			
	(B)	Elaborate the concepts of su examples.	per key, candidate key	y and foreign key with	(

(C)

independence.

Discuss the difference between physical data independence and logical data

COMPUTER SCIENCE, PAPER-II

- Q. No.6. (A) Differentiate between image sampling and quantization. Discuss how these concepts relate to spatial and intensity resolutions.
 - (B) In the context of image smoothing, discuss the differences between mean and median filters. (6)
 - (C) For the image 'X' shown in Figure 1, show the result of applying the given morphological operators. Assume zero padding for border pixels.
 - i. Dilation of X by structuring element [1 1 1].
 - ii. Erosion of X by structuring element [1 1 1]¹
 - iii. Dilation of X by a 3x3 structuring element containing all ones.

0	0	0	0	0	0	0	0
0	1	1	0	0	1	1	0
0	1	1	1	1	1	1	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	1	1	1	1	0	0
0	0	0	0	0	0	0	0

Q. No.7. (A) Perform histogram equalization on the 8-bit image shown in Figure 2.

5	5	5	5	5
10	10	10	10	10
30	30	30	30	30
100	100	100	100	100
100	100	100	100	100

(B) For the 3x3 image shown in the following, apply the horizontal and vertical Sobel operators and compute the magnitude of gradient at the central pixel with intensity value 50.

5	5	5
5	50	5
5	5	5

- (C) In the context of compression, differentiate between coding, spatial and temporal redundancies. (6)
- Q. No.8. (A) Elaborate the concept of three tier architecture with reference to presentation, business logic and data access layers. (8)
 - (B) Differentiate between XHTML and XML.
 - (C) Discuss Agile and Water Fall methodologies in the context of web application development. (6)

(8)

(6)

(8)

(6)

(6)



PART-I(MCQS):

TIME ALLOWED: THREE HOURS

MAXIMUM 30 MINUTES

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

Roll Number

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

COMPARATIVE STUDY OF MAJOR RELIGIONS (FOR NON MUSLIMS)

PART-II

PART-I (MCQS)

(0.0)	Part-II is to be attempted on the separate Answer Book.	
(ii)	Attempt FOUR questions from PART-II. ALL questions carry EQUAL marks.	mipo, érom
(iii)		ifferent
(iv)	places.	1200.00
(iv) (v)	Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Pay No Page/Space be left blank between the answers. All the blank pages of Answer Book	
(*)	be crossed.	K IIIust
(vi)	Extra attempt of any question or any part of the attempted question will not be considered	ed.
	PART-II	
0.37		(0.0)
Q. No. 2.	Person of Jesus Christ is central in Christian faith. Elaborate its significance with brief early development and highlight the modern debate of the 'historical quest of Jesus' in this regard.	(20)
Q. No. 3.	There are several methodologies for the study of religions in the west. Which inspires you the most and why? Write about this methodology, its important figures and important works on it.	(20)
Q. No. 4.	How Atman is the basis of Morality in Hinduism. Explain it in the light of Vedas and Bhagavad Gita, and what kind of moral values it does generate.	(20)
Q. No. 5.	Discuss the challenges faced by Jews in the middle ages and critically evaluate reinterpretation of Jewish religious thought by Saadiah Gaon and Moses Maimonides as a response to that.	(20)
Q. No. 6.	One of the sources of Christian theology is reason. Discuss and evaluate the role of reason and its relationship with revelation which it had in various historical phases of Christian thought.	(20)
Q. No. 7.	How does Buddha look on permanent Self, <i>Atman</i> , or idea of "I"? How does <i>dukkha</i> arise and how can it be eliminated?	(20)
Q. No. 8.	There are exemplary and significant teachings of the Prophet Muhammad (Peace be upon him) for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion.	(20)
Q. No. 8.	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in	(20)
WWW.CLLI WWW.CLLI WWW.CLLI WWW.CLLI	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. <u>URDU VERSION</u>	(20)
WWW.CLLI WWW.CLLI WWW.CLLI WWW.CLLI	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. <u>URDU VERSION</u>	moo.com moo.com moo.com
WWW.CLLI WWW.CLLI WWW.CLLI WWW.CLLI	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion.	سوال
(20) دث نهج (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. <u>URDU VERSION</u> عیسیٰ علیہ السلام کو عیسائی عقید ے میں مرکزی اہمیت حاصل ہے۔ اس کی اہمیت اور ابتدائی ارتقا مختصرا بیان کریں اور اس ضمن میں عصر حاضر میں عیسیٰ علیہ السلام کی تاریخی حیثیت پرب کریں۔ کریں۔ مغرب میں دین کو پڑ ھنے سمجھنے کے لئے مختلف اسالیب یا مناھج متعارف ہوئے ہیں۔ آپ کو کس م	سوال
(20) دث نهج (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **QUITE OF THE PROPERTY O	سوال نمبر 2:
ر20) حث نهج (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **Question 1.5 ** Augustian 1.5 *	سوال نمبر 2: سوال
(20) نهج (20) بم (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **DUVERSION** **August of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **DUVERSION** **August of the society which can help in bringing harmony in the society which can help in today's modern world in the society which can help in today's modern world in the society which can help in today's modern world in the society which can help in today's modern world in the society which can be society which can be society which can help in the society which is a today's modern world in the society which can help in the society which can help in the society which is a today's modern world in the society which can be society which can be society which can be society which and how is it applicable in today's modern world	سوال نمبر 2: سوال نمبر 3:
رون نهج (20) بم بم (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **Pure Aller	سوال نمبر 2: سوال نمبر 3: سوال
(20) نهج (20) بم (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. LIRDU VERSION LIRUU LIR	سوال نمبر 2: سوال نمبر 3: سوال نمبر 4:
(20) (20) بم (20) (20) نصح (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **Queet of segments** **Queet	سوال نمبر 2: سوال نمبر 3: سوال نمبر4: سوال
(20) (20) بم (20) (20) نصح (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **QUITTION OF A PLANT OF A PLAN	سوال نمبر 2: سوال نمبر 3: سوال نمبر4: سوال نمبر5:
(20) نهج (20) (20) (20) ربا	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **DUPTERSION** **PRIME A SERVED SERV	سوال نمبر 2: سوال نمبر 3: سوال نمبر 4: سوال نمبر 5: نمبر 6:
(20) نهج (20) (20) (20) ربا	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **QUITED ARTSON** **QUITED ARTSON	سوال نمبر 2: سوال نمبر 3: سوال نمبر5: سوال نمبر 6: سوال
(20) حث (20) نهج (20) (20) (20) ربا ربا (20) عاور (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **QUITED PRINCIPLE** **QUITED PRINCIPLE**	سوال نمبر 2: سوال نمبر 3: سوال نمبر 5: سوال نمبر 6: سوال نمبر 7:
(20) نهج (20) (20) (20) ربا (20) طور (20)	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **QUITED ARTSON** **QUITED ARTSON	سوال نمبر 2: سوال نمبر 3: سوال نمبر5: سوال نمبر 6: سوال
(20) نهج بم (20) (20) (20) ن ربا اور (20) اور طور (20) بہت	for the underprivileged segments, socially or economically, of the society which can help in bringing harmony in the society. Write a comprehensive note on it and how is it applicable in today's modern world in your opinion. **URDU VERSION** **Quency align Provided P	سوال نمبر 2: سوال نمبر 3: سوال نمبر 4: سوال نمبر 5: سوال نمبر 6: سوال

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Roll Number

CONSTITUIONAL LAW

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) 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

O. No. 2. "The power and jurisdiction of parliament, says, Sir Edward Coke, is so transcendent (20)and absolute, that it cannot be confined, either for causes or persons, within any bounds." Discuss with reference to British Parliament. Article 62 and 63 of the Constitution of Islamic Republic of Pakistan, in their present O. No. 3. (20)form, merely create a Constitutional uncertainty and obscurity. Do you agree? Discuss in the light of the application of these provisions by the superior judiciary in contemporary era. Is there a need of amendment to Article 62 and 63? O. No. 4. Discuss in detail the system of checks and balances in the Constitution and in the (20)political structure of United States of America. "President in the Fifth Republic of France is the symbol of Bonapartism." Comment. Q. No. 5. (20)Q. No. 6. The Indian Constitution has set up "a quasi-federal government" in India. Explain and (20)comment. Q. No. 7. How Grand National Assembly of Turkey is elected? Discuss its powers and functions. (20)Make a comparative analysis of the salient features of the Constitution of the former Q. No. 8. (20)Soviet Union and present day Russian Federation.



Roll Number

CRIMINOLOGY

	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
NOTE: (i) (ii)	The state of the s	om PART-II by selecting	ng ONE question from	EACH
www.ca	i) All the parts (if any) of each Question places.c) Candidate must write Q. No. in the Ans	CHER WWW.CLEHING.COM	ww.riimoo.com www.rii	
(v)	No Page/Space be left blank between be crossed.	the answers. All the blan	nk pages of Answer Boo	k must
(vi)	amoo com www.ramoo.com www.ramoo.	com www.rzzmoo.com	ion will not be considere	d
		<u>CART-II</u> CTION-I		
Q. No. 2.	Define Criminology. Discuss the scope	of criminology in Pakista	n.	(20)
Q. No. 3.	What is the Islamic perspective on crir the help of proper examples.	ne and punishment? Exp	lain your answer with	(20)
	SEC	CTION-II		
Q. No. 4.	What is juvenile delinquency? Expla delinquency in Pakistan. Suggest remedin Pakistan.			(20)
Q. No. 5.	Trace back the history and development	of police organization in	Pakistan.	(20)
	SEC	TION-III		
Q. No. 6.	What is Criminal investigation? Explain	the key principles of crit	ninal investigation.	(20)
Q. No. 7.	To what extent Interpol has been international level. Discuss	successful in reducing	organized crime at	(20)
	SEC	TION-IV		
Q. No. 8.	Intelligence-led policing has become organized crime. Discuss the backgr policing.			(20)
Q. No. 9.	Discuss the laws and institutional arra Pakistan.	ngements for controlling	money laundering in	(20)
	***	****		



Roll Number

ECONOMICS, PAPER-I

TIME AL PART-I(N		VED: THREE HOURS S): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MAR MAXIMUM MAR	
) Ati pla pla () Ca be	art-II is to be attempted on the separ tempt ONLY FOUR questions from I the parts (if any) of each Question aces. andidate must write Q. No. in the Ans to Page/Space be left blank between e crossed.	PART-II. ALL question must be attempted at of swer Book in accordance the answers. All the black	one place instead of a with Q. No. in the Q. ank pages of Answer I	t different Paper. Book must
(12)		com www.caanoo.com www.caanoo.	THE WAY CANDO COM	www.ctamoo.com www.	
		com www.examoo.com www.examo	ART-II		
Q. No. 2.	(a)	State the bases of IS-LM frames comment whether it is a short ruanswer.			(15)
	(b)	Do you think this approach (a) ab	ove, is still applicable for	or policy formulation.	(5) (20)
Q. No. 3.	(a)	How the concepts of notional aggredemand (neo-classical), leads t	· ·	,	` /
	(b)	How equilibrium is established in	the market under the abo	ve (a) approaches.	(10) (20)
Q. No. 4.	(a)	Analyze three different shapes of A sloped and vertical).	Aggregate Supply Curve	(Constant, positively	(10)
	(b)	Explain the role of shifts in Aggrein all three types of Aggregate Su to Fiscal policy.	0	1	(10) (20)
Q. No. 5.	(a)	Explain Arc and Cross elasticities the consumers.	and analyze their role in	n decision making by	(10)
	(b)	Point out application of these theor	ies; quote such examples	s and explain.	(10) (20)
Q. No. 6.	(a)	Discuss major cannons of taxation	and their relevance to tax	x system in Pakistan.	(10)
	(b)	Do you think that the tax system in (restrict your discussion to the appli			(10) (20)
Q. No. 7.	(a)	What is Balance of Payment? Point	out its major componen	ts.	(10)
	(b)	Analyze any one years' BOP of Pa	kistan.		(10) (20)
Q. No. 8.	Wr	ite short note on any TWO of the fol	lowings.	(10 each)	(20)
	(i)	Perfect and Pure competition			
	(ii)	Monetary policy and its tools to con	trol of money supply		

(iii) Balanced and Un-balanced growth theory



Roll Number

ECONOMICS, PAPER-II

TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
W W W .C.	 All the parts (if any) of each Questio places. Candidate must write Q. No. in the An No Page/Space be left blank between be crossed. 	n PART-II. ALL question in must be attempted at or asswer Book in accordance the answers. All the blan	me place instead of at d with Q. No. in the Q.Pap alk pages of Answer Boo	ifferent oer. ok must
	imoo.com www.eiimoo.com www.eiimoo	PART-II		
Q. No. 2.	What are the causes of over time worse practicable options to overcome poverty			(20)
Q. No. 3.	Express your views about trends in affecting them. How the situation can b			(20)
Q. No. 4.	Agriculture's share in GDP and emp Express your views about this decline is countries in the world.			(20)
Q. No. 5.	Critically examine the performance of Express your views about the appropriate chosen fiscal policy.	- · ·		(20)
Q. No. 6.	Specifically describe the history of nat in Pakistan. Why denationalization of t in Pakistan?			(20)
Q. No. 7.	Identify and prioritize three factors him measures would you propose for the sus			(20)
Q. No. 8.	Briefly explain any TWO of the follow	vings:	(10 each)	(20)
	(a) Government Efforts to add	ress Energy Crisis in Paki	stan	
	(b) Scope of Import Substituti	on Strategy in Pakistan		
	(c) Climate Change Challenge	s for the economy of Paki	stan	
	:	***		



Roll Number

ENGLISH LITERATURE

	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
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	tmoo.com www.ctimoo.com www.ctimoo.	ART-II	www.ciimoo.com www.cii	imoo, con
Q. No. 2.	Bertrand Russell bridges the esoteric phendeavour for contentment in his <i>The Co</i>	nilosophical concerns a		(20)
Q. No. 3.	William Wordsworth's 'Lines Compo attempt, in vein, to retrieve the irretrieva the realm of the past. Explain			(20)
Q. No. 4.	How does T.S Eliot envision the charsystem and sublimity in the modern contract.			(20)
Q. No. 5.	Theatre of Absurd marks the break from the insignificance of the human accordance to Samuel Beckett's <i>Waiting for the human accordance to Samuel Beckett's Waiting for the human accordance to Samuel Becket Waiting for the human accordance to Samuel Becket Waiting for the human accordance to Samue</i>	mplishments. Substan		(20)
Q. No. 6.	Amidst the swarming stories of decept <i>Magi</i> appears as a soothing assurance fo		Henry's The Gift of the	(20)
Q. No. 7.	How does Lawrence fictionalize the lib What is your opinion about its critical re			(20)
Q. No. 8.	The modernist aspiration for scientific development of the structuralist attitude			(20)
	***	*****		



Roll Number

ENVIRONMENTAL SCIENCE

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) 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.

	<u>PART – II</u>		
Q. No. 2	(a) Write a detail note on Alternative Energy Resources.(b) What are the Environmental Impacts on food production?	(10) (10)	(20)
Q. No. 3	 (a) What are the events that triggered the interest in bioremediation? (b) What are different steps in anaerobic treatment for biogas generation? (c) Write a note on Environmental Geology. 	(07) (07) (06)	(20)
Q. No. 4	What is meant by smog? Explain the main causes of smog in Punjab. Summarise the effect of key meteorological factors on dispersion of pollutants in the atmosphere.	(20)	(20)
Q. No. 5	(a) Elaborate the concept of greenhouse effect and its importance to global climate.	(08)	
	(b) What are drivers and indicators of Climate Change and how they effects the natural and societal system.	(12)	(20)
Q. No. 6	(a) What are the key factors of National Climate Change Policy 2012?(b) Write a brief note on National Drinking Water Policy 2009.	(10) (10)	(20)
Q. No. 7	(a) Discuss Briefly some Common Types Occupational Health & Safety Hazards.	(05)	
	(b) Give a brief about Environmental Impact Assessment (EIA) procedural stages? In the context of EIA, what type of information is gathered when establishing a baseline?	(15)	(20)
Q. No. 8	Write short notes on any FOUR of the Following: (a) Wetlands (b) Carbon Footprints (c) Ozone Depletion (d) REDD+ (e) Desertification (f) GIS & Remote Sensing	5 each)	(20)

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Roll Number

EUROPEAN HISTORY

	OWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
NOTE: (i)	Part-II is to be attempted on the se	parate Answer Book.	www.ciimoo.com www.eiimoo.	com
(ii)	Attempt ONLY FOUR questions	from PART-II by selecti	ng TWO questions from EA	CH
	SECTION. Answer must be writt	en in respective languag	e except where specified in	the
	question paper. ALL questions carry			
(iii)	All the parts (if any) of each Quest	tion must be attempted at	one place instead of at differ	rent
	places.	on com www.ccamon.com	www.czamoo.com .www.czamoo.	
/	Candidate must write Q. No. in the A		1	
(v)	No Page/Space be left blank betwee	en the answers. All the bl	ank pages of Answer Book m	nust
(2)	be crossed.			
(vi)	Extra attempt of any question or an	y part of the attempted que	estion will not be considered.	
		PART – II		
	mon com www.csamoo.com www.csa.	SECTION-A		
Q. No. 2.	Rational ideas and 'fear' determine ighteenth century. Discuss.	mined the course of Fr	rench Revolution in the	(2
Q. No. 3.	What were the effects of No	nology Domonauto I'a le	oma naliay an Engah	(*
2. 110. 3.	What were the effects of Naj society?	poleon Bonaparte-1's n	ome poncy on French	(2
Q. No. 4.	How would you argue that 1	essons cannot be dray	vn from the Furonean	(
2. 110. 4.	Revolutions in 1830s and 40s		_	(
	context?	as instortear process is	specific to a particular	
Q. No. 5.	What kinds of symbols were us Italy in the nineteenth century?	ed by the movements for	or uniting Germany and	(2
		roccom as a - washioo.com		
	<u>S</u>	ECTION – B		
Q. No. 6.	How did the Great Depression Europe?	more and the second management of the second	ocieties and cultures in	(2
Q. No. 6. Q. No. 7.	How did the Great Depression	in the 1930s effect some ideologies of secular		com
WWW.533	How did the Great Depression Europe? Capitalistic trends promoted the company of	in the 1930s effect some ideologies of secular pe. Discuss.	arism and liberalism in	(2
Q. No. 7. Q. No. 8.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	in the 1930s effect some ideologies of secular pe. Discuss.	arism and liberalism in	(2
Q. No. 7.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	ne ideologies of secula be. Discuss. nist ideas shape the evi ion of 1917?	arism and liberalism in	(2
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). No. 7.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	ne ideologies of secula be. Discuss. nist ideas shape the evi ion of 1917?	arism and liberalism in	(2
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Q. No. 7.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	ne ideologies of secula be. Discuss. nist ideas shape the evi ion of 1917?	arism and liberalism in	(2
Q. No. 7.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	ne ideologies of secula be. Discuss. nist ideas shape the evi ion of 1917?	arism and liberalism in	(2
Q. No. 7.	How did the Great Depression Europe? Capitalistic trends promoted the twentieth-century Western Europe How did violence and Communoutbreak of the Russian Revolution.	ne ideologies of secula be. Discuss. nist ideas shape the evi ion of 1917?	arism and liberalism in	(



Roll Number

GENDER STUDIES

	OWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 2 MAXIMUM MARKS = 8	
NOTE: (i) (ii) (iii) (iv)	Part-II is to be attempted on the separ Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Art	n PART-II. ALL ques n must be attempted a	at one place instead of at differ	rent
(v)	No Page/Space be left blank between be crossed.	the answers. All the b	plank pages of Answer Book m	ust
(vi)	Extra attempt of any question or any p	part of the attempted qu	estion will not be considered.	
	<u>PA</u>	<u>IRT – II</u>		
Q. No. 2.	What are the fundamental differences Substantiate your argument(s) with a studies in Pakistan			(20
Q. No. 3.	Write a comprehensive essay on the and social sciences, reflecting nature			(20
Q. No. 4.	What type(s) of feminism can elevate of women in Pakistan?	the social-cultural, ec	onomic and political status	(20
Q. No. 5.	What are the reasons responsible for the world for gender inequality desp conventions and strong commitment t	oite Pakistan commitm	nent to many international	(20
Q. No. 6.	In the last two decades, globalization developing nations, including Pakis economy on Pakistani women?			(20
Q. No. 7.	Believing in the statement that "wor equal number of women in all spheres			(20
Q. No. 8.	Write short notes on any TWO of the (a) 'Gender Strategic Needs' and 'Ge	Gender Practical Needs		(20
	(c) Government Initiative for comb	eating the menace of vi	olence against women	



Roll Number

GEOGRAPHY

	<u>GEO</u>	<u>UKATITI</u>		
	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS MAXIMUM MARKS	
(iv (v) (vi)	Attempt ONLY FOUR questions from SECTION. ALL questions carry EQU All the parts (if any) of each Question places. Candidate must write Q. No. in the Answer No Page/Space be left blank between be crossed.	om PART-II by selecting JAL marks. In must be attempted at of swer Book in accordance the answers. All the blanart of the attempted questions.	ne place instead of at d with Q. No. in the Q.Pap nk pages of Answer Boo	ifferent oer. ok must
	amou.com www.ciamou.com www.ciamou	PART-II		
	SE	CTION-I		
Q. No. 2.	Discuss Plate Geography in the light examples impact of plate movements or			(20)
Q. No. 3.	What is Isostasy? Discuss differences critical discussion on Global Isostatic A		att's concepts with a	(20)
Q. No. 4.	What are air masses and fronts? How ar weather.	e they classified? Discuss	their impact on world	(20)
Q. No. 5.	Give classification of hazards and discuand manage natural disasters.	uss steps taken in Pakista	n to monitor, mitigate	(20)
	SEC	CTION-II		
Q. No. 6.	What is the difference between tradit. Tourism as per opinion of Geographe Pakistan.			(20)
Q. No. 7.	What are Development Indicators? H Indicators? Discuss with reference to we	•		(20)
Q. No. 8.	Write short notes on any TWO of the fo	ollowing:	(10 each)	(20)
	(a) Malthusian theory of Population	on Growth		
	(b) Weber's theory of Industrial L	ocation		
	(c) Karst topography			



Roll Number

GEOLOGY

TIME AL PART-I(M		VED: THREE HOURS S): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
) A SE i) All pla v) Ca) No be	art-II is to be attempted on the separ ttempt ONLY FOUR questions from ECTION. ALL questions carry EQU the parts (if any) of each Question aces. Indidate must write Q. No. in the Anso Page/Space be left blank between crossed. In attempt of any question or any page.	om PART-II by selecting JAL marks. In must be attempted at swer Book in accordance the answers. All the bl	one place instead of at of e with Q. No. in the Q.Paj ank pages of Answer Boo	lifferent per. ok must
			CART-II CTION-I		
Q. No. 2.	(a)	Briefly describe internal structure a	nd composition of the e	earth.	(10)
	(b)	What do you know about Isostasy a	and Isostatic Adjustmen	t? Explain.	(10)
Q. No. 3.	(a)	Describe various modes of fossiliza	ation.		(15)
	(b)	Briefly describe various lithostratig	graphic units.		(5)
Q. No. 4.	(a)	Describe various sedimentary s down their importance in the field.	tructures of the clas	tic rocks. Also write	(10)
	(b)	Describe various types of volcanic	material and their chara	cteristic features.	(10)
Q. No. 5.	(a)	Write down the genetic classificate all those faults.	ion of faults. Also relate	e principal stresses with	(10)
	(b)	Briefly describe the various types features along them.	s of plate boundaries a	nd the associated earth	(10)
		SEC	CTION-II		
Q. No. 6.	Brie	efly describe various types of gravity	anomalies and their co	rrections.	(20)
Q. No. 7.	(a)	What do you know about the trappi Also describe various types of traps	•	carbons? Explain.	(15)
	(b)	What do you know about bright spo	ot technique? Explain.		(5)
Q. No. 8.	Wr	ite short notes on any TWO of the fo		(10 each)	(20)
		(a) Stratigraphic Sequer	ice.		

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(c) Earthquakes (Elastic Rebound theory and Locating Epicenter)

(b) Copper deposits of Pakistan.



Roll Number

GOVERNANCE AND PUBLIC POLICIES

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) 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. (a) Define and describe Governance as formation and management of the formal and informal mechanisms that regulate the public realms.
 - (b) Describe various indicators of good governance such as Participation, Rule of (12) Law, Transparency, Accountability, Responsiveness and Efficiency.
- Q. No. 3. (a) Rational Choice Theory proposes that a rational person is guided by the incentive system within which he/she operates. Explain the implication of this theory in relation to transforming systems and models of public sector governance.
 - (b) In response to the rational choice theorists, new institutionalism theory prescribes a more comprehensive understanding of social behaviour. Explain how the new institutionalism theorists see self-interest, social values, and power structures as determinants of social behaviour.
- Q. No. 4. The planning Commission (PC) is an apex financial and public policy making institution of the Government of Pakistan. Elaborate the role of PC in terms of policy development for national economic growth and development of social infrastructure through the Public Sector Development Programs (PSDP).
- Q. No. 5. (a) A multitude of models are proposed for public policy making process. Describe and explain the six step model proposed by Patton and Swacki (1986) that begins with defining and diagnosing the problem.
 - (b) Pakistan has a mixed-economy with a considerably large public sector. It is believed that size and scope of government needs substantial reduction in order to reduce fiscal deficit and achieve economic efficiency. Suggest strategies for gradual process of right-sizing in public sector of Pakistan.
- Q. No. 6. (a) Local government reforms have been designed and implemented across Pakistan (10) during three military regimes in 1959, 1979 and 2001. Present an overview of causes of failure and success (if any) of the aforementioned reforms.
 - (b) The case of decentralization reforms in the Indian state of Kerala has attracted a world-wide attention. Highlight key features of Kerala's decentralization model that was initiated in 1996 by the LDF (Leftist Democratic Front).
- Q. No. 7. Federal character of Pakistan's government is enshrined in its 1973 constitution. 18th (20) constitutional amendment enhanced political and fiscal space for Pakistan's constituent units. Highlight key features of 18th constitutional amendment and explain its significance for the smaller provinces of Pakistan.
- Q. No. 8. According to the new public management model, the role of citizens in enhancing governance of public sector is critically important. Explain how civil society an instrumental pillar of the state can potentially transform the outcomes of governance for the benefit of citizenry.



Roll Number

HISTORY OF PAKISTAN AND INDIA

TIME ALI PART-I(M	LOWED: THREE HOURS (CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS	
WWW.CI	Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed.	PART-II. ALL question in must be attempted at of swer Book in accordance the answers. All the blan	with Q. No. in the Q.Papak pages of Answer Boo	er. k must
	moo.com www.eiimo.com www.eiimo.p	ART-II		
Q. No. 2.	Analyze and elucidate the institutional s	tructure of the Sultanate	of Delhi.	(20)
Q. No. 3.	"Akbar and not Babur was the real foun	der of the Mughal empire	". Comment.	(20)
Q. No. 4.	Are You agree with the statement that "for the Colonial Rule in India".	The Third Battle of Pani	pat was paved the way	(20)
Q. No. 5.	How reconciliation developed between Muslim League during 1913-1916?	n the Indian National Co	ongress and All India	(20)
Q. No. 6.	The Congress Rule in the provinces Movement. Comment.	(1937-39) paved the	way for the Pakistan	(20)
Q. No. 7.	In what sense the Elections of 1970 are history of Pakistan.	unique in nature and im	portant in the electoral	(20)
Q. No. 8.	Highlight the factors that create obstacl in contemporary history of the country.	es in the smooth function	ning of the Parliament	(20)
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Roll Number

HISTORY OF USA

NOTE: (i) Part-II is to be attempted on the separate Answer Book. (ii) Attempt ONLY FOUR questions from PART-II in paper. ALL questions carry EQU marks. (iii) All the parts (if any) of each Question must be attempted at one place instead of at differ 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 in be crossed. (vi) Extra attempt of any question or any part of the attempted question will not be considered. PART—II Q. No. 2. What is the variance between the Treaties of Paris in 1763 and 1783? Elaborate their significant effect on the US. Q. No. 3. Why did American colonists criticized the Stamp Act of 1765? What was the Stamp Act Crisis and its repercussions on US society? Q. No. 4. Discuss the factors that have contributed to the amended status of American women with a special allusion to the Modern Feminism. Q. No. 5. Critically trace the African American Struggle for Equality and how many of them rose to the highest office. Q. No. 6. Trace out the reasons of US economy augmentation in the post WW II era. Q. No. 7. "New US Afghan policy may push Pakistan towards China." Assess the observation in perception of the current deteriorating US-Pakistan relations. Q. No. 8. Write an all-inclusive note on the beginning and end of the Cold War. ***********************************	FIME ALLO PART-I(MC	OWED: THREE HOUR CQS): MAXIMUM 30		PART-I (MCQS) PART-II	MAXIMUM MARKS MAXIMUM MARKS	
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Stamp Act Crisis and its repercussions on US society? Q. No. 4. Discuss the factors that have contributed to the amended status of American women with a special allusion to the Modern Feminism. Q. No. 5. Critically trace the African American Struggle for Equality and how many of them rose to the highest office. Q. No. 6. Trace out the reasons of US economy augmentation in the post WW II era. Q. No. 7. "New US Afghan policy may push Pakistan towards China." Assess the observation in perception of the current deteriorating US-Pakistan relations. Q. No. 8. Write an all-inclusive note on the beginning and end of the Cold War. ***********************************	Q. No. 2.			reaties of Paris in 176	3 and 1783? Elaborate	(2
women with a special allusion to the Modern Feminism. Q. No. 5. Critically trace the African American Struggle for Equality and how many of them rose to the highest office. Q. No. 6. Trace out the reasons of US economy augmentation in the post WW II era. Q. No. 7. "New US Afghan policy may push Pakistan towards China." Assess the observation in perception of the current deteriorating US-Pakistan relations. Q. No. 8. Write an all-inclusive note on the beginning and end of the Cold War. ***********************************	Q. No. 3.	•			1765? What was the	(2
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Q. No. 7. "New US Afghan policy may push Pakistan towards China." Assess the observation in perception of the current deteriorating US-Pakistan relations. Q. No. 8. Write an all-inclusive note on the beginning and end of the Cold War. ***********************************	Q. No. 5.			an Struggle for Equal	ity and how many of	(2
observation in perception of the current deteriorating US-Pakistan relations. Q. No. 8. Write an all-inclusive note on the beginning and end of the Cold War. ***********************************	Q. No. 6.	Trace out the reasons of	of US econor	my augmentation in th	e post WW II era.	(2
	Q. No. 7.					(2
	Q. No. 8.	Write an all-inclusive i	note on the b	peginning and end of the	he Cold War.	(2
			**	*****		



Roll Number

INTERNATIONAL RELATIONS, PAPER-I

TIME ALI PART-I(M	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
NOTE: (i) (ii) (iii)	Part-II is to be attempted on the separ Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed.	rate Answer Book. PART-II. ALL question must be attempted at or swer Book in accordance the answers. All the blan	as carry EQUAL marks. The place instead of at differ with Q. No. in the Q.Paper. The place instead of at differ with Q. No. in the Q.Paper.	rent
(vi)	Extra attempt of any question or any pa	art of the attempted questi	on will not be considered.	
	imoo.com www.examoo.com www.exam	PART-II		
Q. No. 2.	Describe the evolutionary process throustatus of an academic discipline.	ugh which International F	Relations acquired the (2	(0)
Q. No. 3.	What are the points of convergence an approaches to the study of state behavio			(0)
Q. No. 4.	What are the changing dimensions of concept of international security?	security and how they va	ary from the classical (2	0)
Q. No. 5.	Define the concept of Strategic Cult Pakistan's Strategic Culture.	ure and highlight the m	najor determinants of (2	0)
Q. No. 6.	Explain the concept of Economics Lil concept of Neo-imperialism or creating		ore interests with the (2	0)
Q. No. 7.	Globalisation is a buzz word of present do you agree that it is transforming quic	com www.elamoo.com		(0)
Q. No. 8.	Describe the concept of Pre-Emptive So and critically evaluate the legitimacy of			(0)
	***	*****		



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

Roll Number

INTERNATIONAL RELATIONS, PAPER-II

TIME ALLO PART-I(MO		THREE HOUR MAXIMUM 30		PART-I (MCQS) PART-II	MAXIMUM MARKS : MAXIMUM MARKS :	
				ate Answer Book.	www.gramoo.com www.examo	ю.совя
					tions carry EQUAL marks.	2
(iii)		parts (if any) of	each Question	n must be attempted a	at one place instead of at diff	ferent
(iv)	places.	oto must verito O. N	Jo in the And	syyan Daak in aaaandan	eas with O No in the O Renor	
(v)		ge/Space be left bl			ice with Q. No. in the Q.Paper blank pages of Answer Book	
(vi)	Extra a	ttempt of any que	stion or any p	eart of the attempted qu	uestion will not be considered	•
			<u>P</u> .	ART – II		
Q. No. 2.	it's re		-	-	the Bolsheviks represent stability, law and order	(20
Q. No. 3.		ate the strength a the cold war.	and liabilities	s of "containment of	world revolution policy"	(20
Q. No. 4.	consta		n. Explore t	he relationship betw	es its foreign policy is reen capitalist democracy	(20
Q. No. 5.	unders	standing of the	dynamics of		sential pre-requisite to an ions. Analyse the central crorism?	(2
Q. No. 6.	relatio		istan and In	dia. What measures	politics is the contentious would you consider for	(2
Q. No. 7.	_	•		ss the possibility of s Timor or Bosnian cr	settlement of the Kashmir isis?	(2
Q. No. 8.	Afgha accom	n Taliban. Wl	nat do you	u think of a po	today is, dealing with litical engagement and Taliban giving way to	(20
			*>	****		



Discuss.

Q. No. 8.

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

Roll Number

(20)

INTERNATIONAL LAW

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TIME ALI PART-I(M	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK			
(iii)	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.					
(vi)	No Page/Space be left blank between be crossed. Extra attempt of any question or any page.	the answers. All the blan	nk pages of Answer Boo	k must		
(*1)	Exact attempt of any question of any pe	are or the attempted questi	on will not be considere	ч.		
	<u>P</u>	ART-II				
Q. No. 2.	"From the theoretical stand point, the sounding the death — knell of positivism		e 'general principles'	(20)		
Q. No. 3.	What do you mean by subject of law? law with special reference to Reparatio Nations Organization case 1949.		•	(20)		
Q. No. 4.	According to Starke, the subject of recclearly defined rules or principles unsystematic state practice". Discuss.			(20)		
Q. No. 5.	To what extant, if at all, are the powers of Chapters VI and VII of the United Na		onfined to the contents	(20)		
Q. No. 6.	Critically analyze the powers of the Cosettlement of International Disputes.	General Assembly and Se	ecurity Council in the	(20)		
Q. No. 7.	"Although Security Council has resol	ved most of the issues	relating to threat to	(20)		

international peace and security but the real problem today is about its composition".

Elucidate and Justify: "The United Nations, inspite of its imperfections, is the only

organization that can save humanity from disaster and complete annihilation".



Roll Number

ISLAMIC HISTORY AND CULTURE

TIME ALI PART-I(M		ART-I (MCQS) ART-II	MAXIMUM MARK MAXIMUM MARK	
(iv (v)	Part-II is to be attempted on the separate Attempt ONLY FOUR questions from F SECTION. ALL questions carry EQUAL) All the parts (if any) of each Question muplaces. Candidate must write Q. No. in the Answer No Page/Space be left blank between the be crossed. Extra attempt of any question or any part of	PART-II by selecting marks. ust be attempted at or Book in accordance was answers. All the blank	ne place instead of at devith Q. No. in the Q.Papk pages of Answer Book	lifferen per. ok mus
(vi)	tmoo.com www.riimoo.com www.riimoo.com	www.niamoo.com w	on will not be considere	a.
		<u>RT-II</u> TION-I		
Q. No. 2.	Describe the Socio-Political conditions of A	www.caamoo.com	of Islam.	(20)
Q. No. 3.	Holy Prophet's Hijrat from Makkah to Mac Islam. Explain.	dina was the turning p	point in the history of	(20)
Q. No. 4.	Analyse the Fiscal Policy adopted by Umar	bin Abdul Aziz during	g his reign.	(20)
	SECTI	ION-II		(20)
Q. No. 5.	Give an analytical study of the Muslim Arc Cordova Mosque and Al-Hamra of Granada	-	h special reference to	(20)
Q. No. 6.	Describe the Philosophical, scientific and lit	terary progress under t	he Abbasids.	(20)
Q. No. 7.	Critically evaluate the Ottoman's administranzimat.	strative reforms with	special reference to	(20)
Q. No. 8.	Write a comprehensive essay on "Islam a opinion what should be an agenda for the 21		Modernity"; in your	(20)
	*****	*****		



Roll Number

JOURNALISM & MASS COMMUNICATION

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 20**PART-I(MCQS): MAXIMUM 30 MINUTES PART-II** MAXIMUM MARKS = 80Part-II is to be attempted on the separate Answer Book. NOTE: (i)

- (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.
- No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
- Extra attempt of any question or any part of the attempted question will not be considered.

PART-II

- Traditionally, communication theory as a distinct area of media studies has transited O. No. 2. through minimum four eras of its development. Explain these eras and their specific characteristics by categorizing the communication theories associated with them.
- Elizabeth Noelle-Neumann propounded the spiral of Silence Theory in 1974 while Q. No. 3. (20)examining public opinion as a form of social control, which later emerged as a milestone in public opinion formation research. Discuss it in detail by drawing model of the theory.
- In international and global communication context, communication and culture are O. No. 4. strongly associated with each other. Discuss the nexus in the light of Marxist and Gramsci approaches.
- Relations between governments and mass media have more often been adversarial in Q. No. 5. Pakistan. Discuss it in historical perspective as why they have been the way have been. Be precise and critical in your attempt.
- How would you differentiate between Development Communication and Development (20) O. No. 6. Support Communication? Would you support the use of DSC tools and techniques in an increasingly cosmopolitan society? In either case, provide cogent justifications to support your opinion.
- O. No. 7. In developing nations, this impression is gaining momentum that mass media and journalists more often look after their limited objectives with complete disregard to national security when reporting complex social and political issues. This calls for an effective governance of media and their affairs with essential regulations. Don't you think such impression plagues the right of freedom of expression and media? Discuss this in the perspective of contemporary media laws of Pakistan.
- Briefly explain the following: (5 each) Q. No. 8. (20)
 - Media determinism by Marshall McLuhan
 - Cultural industries h.
 - PEMRA Code of Ethics c.
 - Press Information Department



Roll Number

LAW

	www.erimoo.com www.erimoo.			
TIME ALI PART-I(M	LOWED: THREE HOURS (CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS MAXIMUM MARKS	
	 All the parts (if any) of each Question places. Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed. 	n PART-II. ALL questing must be attempted at swer Book in accordance the answers. All the bl	one place instead of at dive with Q. No. in the Q.Pap ank pages of Answer Boo	er. k must
	<u>PA</u>	ART – II		
Q. No. 2.	Explain the several ingredients of factions commit a riot, can they be they be tried jointly?			(20)
Q. No. 3.	Under what circumstances expert even to the opinion of a medical practition			(20)
Q. No. 4.	What is legal significance of a charhas to be a separate trial? Explain an			(20)
Q. No. 5.	Critically elaborate the inherent pow the powers to amend judgments, dec		scuss with reference to	(20)
Q. No. 6.	What are the duties and powers judgment?	of a court in order	ing attachment before	(20)
Q. No. 7.	What is Estoppel? On what prince essentials?	ciple of law it is ba	ased and what are its	(20)
Q. No. 8.	Discuss the legal significance of	f Arbitration as an	Alternative Dispute	(20)

Resolution Mechanism. What is enforcement procedure of an Arbitral Award?



Roll Number

MERCANTILE 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 separ	ate Answer Book.	www.examou.com www.examou.com

- - (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.
 - No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
 - Extra attempt of any question or any part of the attempted question will not be considered. (vi)

PART-II

What do you know about the issuance of prospectus of a company? What matters are to O. No. 2. be stated in it and what is the civil and criminal liability for mis-statement in prospectus? Elaborate the conditions and procedures for the registration of mortgages and charges O. No. 3. under company law. O. No. 4. What do you know about the meetings and proceedings of company? Explain in detail. (20)What is the difference between contract and agreement? Explain in detail the O. No. 5. (20)performance of reciprocal promises. Define arbitration agreement and elaborate what are the powers of court in appointing O. No. 6. (20)and removing arbitrator(s) as well as to modify and remit the award? Q. No. 7. Define negotiable instrument and also explain the special rules of evidence under the Negotiable Instrument Act, 1881. What do you know about the composition and functions of Competition Commission O. No. 8. of Pakistan under the Competition Commission Act, 2010?



Roll Number

PERSIAN

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

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

- (ii) Attempt **ONLY FOUR** questions from **PART-II** by selecting TWO questions from EACH SECTION. Answer must be written in respective language except where specified in the question paper. **ALL** questions carry **EQUAL** marks.
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
- (iv) 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 – I

سوال نمبر2: احوال وآثار یکی از شاعران و نویسندگان زیر را بزبان فارسی بحث وبررسی نمایید. (20)

ا - اقبال لاهوری ب - امیرخسرودهلوی

ج - امام محمد غزالی د - نظام الملک طوسی

سوال نمبر 3: از عناوین زیر دو تا چیده روی آن مقالات مختصری را بزبان فارسی بنویسید - 10 ، 10 (20)

ا ـ غزل فارسی در پرتوی تاریخ ولغت ب ـ جهد و تکاپو در شعر اقبال

ج ـ تأثیر ات فارسی بر زبان ار دو د سعدی معلم اخلاق

سوال نمبر 4: ا . افعال لازم و متعدی را تعریف نموده با آوردن مثال توضیحات لازم را ارائه دهید. 10 (20) 10 ب . درمصادر مرکب زیر از پنج تا جمله بسازید. آباد کردن ، اذیت کردن ، به هدف رسیدن ، بیرون رفتن ،تاکید کردن ، تشریف آوردن ،خراب کردن ، دعوت کردن ، راه رفتن ، کمک کردن ،

سوال نمبر 5: متن زیر را بزبان فارسی ترجمہ کنید۔

After the emergence of Islam Iranian artists started to adorn the Quran. They adorned the preface and the margins of this sacred book skilfully and patiently, so it led to the appearance of a new art called "illumination".

When "Mangols" attacked Iran they destroyed most of the cultural works. After that they gathered togather many artists and supported arts. At this time the Chinese style of painting became prevalent in Iran. The study of the paintings in some books as "Kelile and Demneh" and "Shahnameh" show that the paintings of this period from the point of view of accuracy in designing, variety of colours and details are more powerful than of previous periods.

SECTION - II

سوال نمبر 6: از اجزای زیر دو تا بزبان انگلیسی شرح نمایید ـ

۱ - دلم زو شب حدیث ناز می گفت همی گفت آن حدیث و باز می گفت

نمی آمد مرا خواب از غم دوست ز هجران سرگذشتی باز می گفت خیال غمزه از پیکان دادوز پیام ترک تیرانداز می گفت

نهان می مردم و می زیستم باز که جان با من سخن زان ناز می گفت

(20)

(20):10:10

بیار باده که بنیاد عمر بر بادست ز هر چه رنگ تعلق پذیرد آزادست سروش عالم غیبم چه مژدهها دادست نشیمن تو نه این کنج محنت آبادست کز دیو و دد ملولم و انسانم آرزوست گفت آنک یافت می نشود آنم آرزوست کآن عقیق نادر ارزانم آرزوست آن شکار صنعت پنهانم آرزوست

ب - بیا که قصر امل سخت سست بنیادست غلام همت آنم که زیر چرخ کبود چه گویمت که به میخانه دوش مست و خراب که ای بلندنظر شاهباز سدره نشین ج - دی شیخ با چراخ همیگشت گرد شهر گفتند یافت می نشود جسته ایم ما هر چند مفلسم نپذیرم عقیق خرد

پنهان ز دیدهها و همه دیدهها از اوست

سوال نمبر7: حکایت زیر را بزبان انگلیسی ترجمه کنید .

پادشاهی با غلامی عجمی در کشتی نشست و غلام دیگر دریا را ندیده بود و محنت کشتی نیاز موده گریم و زاری آغاز نهاد و لرزه بر اندامش نهاد. ملک را عیش از و منغص بود. کم طبع نازک تحمل امثال این صورت نم بندد چاره ندانستند. حکیمی در آن کشتی بود ملک را گفت اگر فرمان دهی او را بم طریقی خاموش گردانم گفت غایت لطف و کرم باشد بفرمود تا غلام را بم دریا انداختند چند نوبت غوطم خورد از آن پس مویش گرفتند و پیش کشتی آوردند و بم دو دست در سکان کشتی آویخت چون بر آمد بگوشم بنشست و قرار یافت ملک را عجیب آمد پرسید کم حکمت چم بود گفت از اول محنت غرق شدن نم دیده بود و قدر سلامت کشتی ندانستم.

سوال نمبر8: فكروانديشم دو تا ازشاعران زير بحث و بررسى نماييد -

ا ـ مولانا روم ب ـ امير خسرو ج ـ احمد شاملو د ـ فروغ فرخ زاد

Page 2 of 2



places.

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

Roll Number

PHILOSOPHY

www.caamoo.com www.caamoo.com www.raamoo.com		www.cialboo.com www.riamoo.com			
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 quest	tions carry EQUAL marks.			
(iii) All the parts (if any) of each Question	n must be attempted a	t one place instead of at different			

- (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.	Define Philosophy and explain its main branches.		(20)
Q. No. 3.	Discuss key points of Popper's Fallibilism.		(20)
Q. No. 4.	Work out the weaknesses and strengths of Deductive method.		(20)
Q. No. 5.	Discuss Berkeley's critique of Locke's representative realism.		(20)
Q. No. 6.	Critically evaluate Rawls' notion of Original Position.		(20)
Q. No. 7.	In what sense Foucault may be treated as a post-modernist think	er.	(20)
Q. No. 8.	Write short notes on any TWO of the following: (a) Al-Farabi	(10	each) (20)
	(b) Al-Ghazali		
	(c) Ibn Rushid		
	(c) Ton reasons		



Roll Number

PHYSICS, PAPER-I

TIME ALLOWED: THREE HOURS **MAXIMUM MARKS = 20** PART-I (MCQS) **MAXIMUM 30 MINUTES MAXIMUM MARKS = 80 PART-I(MCQS): PART-II** 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. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. Extra attempt of any question or any part of the attempted question will not be considered. Use of Calculator is allowed. PART-II Q. No. 2. (a) Show that the work done by a constant force is equal to the difference of initial and final kinetic energies of the body. A 25 kg bear slides, from rest, 12 m down a pine tree, moving with a speed of **(b) (8)** 5.6 m/s just before hitting the ground. (i) What change occurs in the gravitational potential energy of the bear-Earth system during the slide? (ii) What is the kinetic energy of the bear just before hitting the ground? (c) Object A is launched as projectile with initial speed v at an angle θ above the horizontal. Object B has exactly the same initial speed at exactly the same angle as object A but object B is sliding up a frictionless incline as shown in the figure. Object A has mass M and object B has mass 2M. During the subsequent motion, each object will reach a maximum height above the starting location. At its maximum height, which object has the larger kinetic energy? Explain. (ii) Which object has the larger maximum height? Explain. Derive the expression for the total mechanical energy in simple harmonic (a) Q. No. 3. motion. Draw and discuss the graphs of Energy versus Time and Energy versus Position. In the figure shown below, two strings have been tied together with a knot and **(b)** then stretched between two rigid supports. The strings have linear densities $\mu_1 = 1.4 \times 10^{-4}$ kg/m and $\mu_2 = 2.8 \times 10^{-4}$ kg/m. Their lengths are $L_1 = 3$ m and $L_2 = 2$ m, and string 1 is under a tension of 400 N. Simultaneously, on each

reaches the knot first?

(c) A mass-spring system is oscillating with amplitude A. What will be the displacement at which kinetic energy is equal to the potential energy?

string a pulse is sent from the rigid support end, toward the knot. Which pulse

PHYSICS, PAPER-I

Q. No. 4.	(a)	What is polarization? Discuss polarization by reflection.		8)
	(b)	Light of wavelength 624 nm is incident perpendicularly on a s (n = 1.33) suspended in air. What are the (i) least and (ii) second least thicknesses of the film for which the reflections	(1)	8)
		film undergo fully constructive interference?		
	(c)	A maintenance crew is working on a section of a three lane highway only one lane open to traffic. The result is much slower traffic flow jam). Do cars on a highway behave like (i) the molecules of an incompressible fluid or (ii) the molecules of a compressible fluid? Explain.		4)
		Show that mass and energy are interconvertible.		
Q. No. 5.	(a)	NAME CARDOO COM NAME CARDOO COM NAME CARDOO COM NAME CARDOO COM		8)
	(b)	A spaceship is moving away from the earth at a speed of $0.80c$ when missile parallel to the direction of motion of ship. The missile moves a of $0.60c$ relative to the ship (see figure). What would be the speed of the as measured by an observer on the earth? Compare with the prediction of Galilean kinematics.	nt a speed (see missile	8)
		s 0.80c → 0.80c		
	(c)	If \vec{A} and \vec{B} are nonzero vectors, is it possible for $\vec{A} \cdot \vec{B}$ and $\vec{A} \times \vec{B}$ to Explain.		4)
Q. No. 6.	(a)	Distinguish between Linear and Angular momentum. Derive expression angular momentum of a rigid body rotating about a fixed axis. Explain of Conservation of Angular Momentum.		8)
	(b)	A girl of mass <i>M</i> stands on the rim of a frictionless merry-go-round of and rotational inertia <i>I</i> that is not moving. She throws a rock of horizontally in a direction that is tangent to the outer edge of the round. The speed of the rock, relative to the ground, is <i>v</i> . Afterward, we (i) the angular speed of the merry-go-round and (ii) the linear speed of the girl?	mass <i>m</i> (merry-go-	8)
	(c)	A planet is moving at constant speed in a circular orbit around a state complete orbit, what is the net amount of work done on the planet by gravitational force? What if the planet's orbit is an ellipse, so that the not constant? Explain.	the star's	4)
Q. No. 7.	(a)	Differentiate between Fermi-Dirac, Bose-Einstein and Maxwell-statistics.		6)
	(b)	Show that the entropy remains constant in a reversible process but incan irreversible one.		6)
	(c)	When 20.9 J was added as heat to a particular ideal gas, the volume of changed from 50 cm ³ to 100 cm ³ while the pressure remained at 1 atm. (i) By how much did the internal energy of the gas change? (ii) If the quantity of gas present was 2×10^{-3} mol, find C_p .	of the gas	8)
Q. No. 8.	Expla	ain the following:	(05 each) (20)	
WWW.CLIN	100.00m	(a) Scalar triple product (b) Surface tension		
		(c) He-Ne Gas LASER (d) Gravitational potential energy		
		******	D 2 62	



PART-I(MCQS):

NOTE: (i)

TIME ALLOWED: THREE HOURS

MAXIMUM 30 MINUTES

Part-II is to be attempted on the separate Answer Book.

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

Roll Number

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

PHYSICS, PAPER-II

PART-I (MCQS)

PART-II

	(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 dis	fferer
WWW.00		places.	
www.c	(iv) (v)	Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Pape No Page/Space be left blank between the answers. All the blank pages of Answer Book	
10 10 10 C	(•)	be crossed.	com-
www.c	(vi) (vii)	Extra attempt of any question or any part of the attempted question will not be considered Use of Calculator is allowed.	
WWW.C		PART-II	onu mai
Q. No. 2.	(a)	Define and explain Gauss' Law. Deduce Coulomb's Law from Gauss' Law.	(8)
W/W/W.C	(b)	Find the Electric Field Intensity due to an infinite sheet of charge.	(8)
	(c)	The electric field near an infinite sheet of charge is 3.84×10^5 N/C. What is the	(4)
	(-)	surface charge density on the sheet? ($\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{N. m}^2$)	(-)
Q. No. 3.	(a)	Derive an expression for capacitance of cylindrical and spherical capacitor.	(8)
	(b)	Show that the energy consumed in charging a capacitor to charge Q and voltage V can be considered as potential energy stored in the field between the plates. Find	(8)
	()	expression for energy stored in the field.	(4)
	(c)	An isolated conducting sphere whose radius R is 6.85 cm has a charge $q=1.25$ nC. How much potential energy is stored in the electric field of this charged conductor? $(\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{N. m}^2)$	(4)
Q. No. 4.	(a)	Derive an expression for time dependent Schrodinger's wave equation.	(8)
	(b)	Explain de Broglie's hypothesis of matter wave.	(8)
	(c)	Determine the de Broglie's wavelength of an electron that has been accelerated through a potential difference of $100V$. (h= $6.63 \times 10^{-34} J.s$)	(4)
Q. No. 5.	(a) (b)	What is Transistor? Briefly explain three types of Transistor Circuit Configurations. Draw a neat diagram of Transistor Characteristics in Common Emitter Configuration for P-N-P and N-P-N transistor. Also discuss types of characteristic curves for a transistor in Common Emitter Configuration.	(8)
	(c)	Write a short note on Load line.	(4)
Q. No. 6.		What do you understand by nuclear fission? How was it explained theoretically on the basis of liquid drop model?	(8)
	(b)	Briefly describe important uses of radioisotopes.	(8)
	(c)	A 5.30 MeV alpha particle happens, by chance, to be headed directly towards the nucleus of an atom of gold, which contains 79 protons. How close does the alpha particle get to the centre of the nucleus before coming momentarily to rest and reversing the relatively massive nucleus?	(4)
Q. No. 7.	(a)	Explain construction and working of a Geiger Muller Counter.	(8)
	(b)	Draw the characteristic of Geiger Muller Counter and also explain it.	(8)
	(c)	What are the properties of Gamma Rays?	(4)
Q. No. 8.	Wri	te short notes on any TWO of the following: (10 each)	(20
		(a) Poynting Vector	
		(b) Heisenberg's Uncertainty Principle	
		(c) Mass Defect and Binding Energy	



Roll Number

POLITICAL SCIENCE, PAPER-I

	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	-
NOTE: (i) (ii)	a characteristic formation and a strategic of the strategic and a strategic of	m PART-II by selectin VAL marks.		
(iv) (v)	places.) Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed.	swer Book in accordance the answers. All the bla	e with Q. No. in the Q.Papank pages of Answer Boo	oer. ok must
(vi)	1000 com	ART-II CTION-I	tion will not be considere	d.
Q. No. 2.	Critically analyze the salient features of features are valid, even today?	Plato's Republic. Do yo	ou think that some of its	(20)
Q. No. 3.	What is the concept of State of Nat comparison with the Social Contract as a			(20)
Q. No. 4.	Write a detailed note on the concept of significance in the progress and decline	0	-e-Khaldun. What is its	(20)
Q. No. 5.	Write a detailed essay on the principle How it can be made possible in the mod		given by Allama Iqbal.	(20)
	SEC	CTION-II		
Q. No. 6.	What is significance of Local Governme repeated failures of the efforts in Pakista			(20)
Q. No. 7.	What is the significance of independent think that without an independent judiestablished in the government? Explain	ciary a system of check	ks and balances can be	(20)
Q. No. 8.	Write short notes on any TWO of the fo	llowing:	(10 each)	(20)
	(a) Role of middle class in stren	CHIII WWW.CLIIMOO.CHIII		
	(b) Violation of parliamentary		Pakistan	
	(c) Significance of religious har	miony in a state.		



Roll Number

POLITICAL SCIENCE, PAPER-II

WWW.CI	amon com www.cxamoo.com www.examoo.	nm www.esamoo.com w	reveciamos com veveria	mno com			
TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK				
(ii) (iii) (iv) (v)	NOTE: (i) Part-II is to be attempted on the separate Answer Book. (ii) Attempt ONLY FOUR questions from PART-II by selecting ONE Question from SECTON-I and THREE Questions from SECTION-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.						
		ART-II CTION-I					
Q. No. 2.	Write the Composition, Powers and Pos	ition of the French Natior	nal Assembly.	(20)			
Q. No. 3.	Compare and Contest the powers of Indi	ian President with the Am	nerican president.	(20)			
	SEC	CTION-II					
Q. No. 4.	Do you agree that Pakistan was achidemocratic process for the sake of const		gh the "constitutional	(20)			
Q. No. 5.	Q. No. 5. Logically prove that 18 th amendment of 1973 Constitution is considered to be the new social contract for provincial autonomy among the Pakistani political parties. (20)						
Q. No. 6.	To what extent global economic ins governance?	stitutions are indispensa	ble pieces of global	(20)			
Q. No. 7.	Examine the importance of national is reference to geostrategic position for exentury.			(20)			
Q. No. 8.	Write comprehensive note on the follow	ring:	(10 each)	(20)			
	(a) Guardian Council of Iran.						
	(b) ECO						
	***	****					



Roll Number

PSYCHOLOGY

TIME AL	LOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARK	S = 20
PART-I(N	ICQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARK	S = 80
(ii	 Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed. 	n PART-II. ALL questing must be attempted at swer Book in accordance the answers. All the bl	one place instead of at dee with Q. No. in the Q.Papank pages of Answer Boo	oer. ok must
	<u>P</u>	PART-II		
Q. No. 2.	To what extent in the twenty-first copsychology?	entury you justify the	role of 'the mind' in	(20)
Q. No. 3.	Why is associative learning importan	nt? Discuss with resp	ect to the behavioural	(20)
WWW.CI	repertoire provided by instrumental vers	sus associative forms of	learning.	moo.com moo.com moo.com
Q. No. 4.	What are the major developmental chan	ges that occur during th	e school years?	(20)
Q. No. 5.	How do social and cognitive processes a	affect behaviour?		(20)
Q. No. 6.	What are the defining characteristics of assess different psychotherapies. Which effective?	com www.stamoo.com	www.czamoli.com www.cz	(20)
Q. No. 7.	Is there any harm in national stereotype	es? Discuss the relevan	t factors which we need	(20)
	to take into consideration when we wish	to build social harmon	y in society.	
Q. No. 8.	Write comprehensive notes on any TWO	O of the following:	(10 each)	(20)
	(i) Stress is linked to illness, with	h examples		
	(ii) Consequences of redundancy	and unemployment.		
	(iii) Role of the reinforcer in class	ssical and instrumental	conditioning.	
	annocent was cramon com were consider	a ale ale ale ale ale ale ale ale ale al		



Roll Number

PUBLIC ADMINISTRATION

TIME ALLO	OWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
NOTE: (i) (ii) (iii) (iv) (v) (vi)	Part-II is to be attempted on the separ Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Ann No Page/Space be left blank between be crossed. Extra attempt of any question or any process.	n PART-II. ALL quest n must be attempted at aswer Book in accordan the answers. All the b	tions carry EQUAL marks. t one place instead of at difference with Q. No. in the Q.Paper lank pages of Answer Book 1	erent
	PA	RT – II		
Q. No. 2.	Traditional managerial approach to rationality in decision making. List develop a rational comprehensive making comprehensive and logical critique of	and discuss the neces nodel in decision mak	sary steps to be taken to	(20)
Q. No. 3.	There is a point of view given by organized public administration is broublic has lost faith in government provincial governments is feared bas systems, procedures, processes of governments.	oke, broken and inefficient institutions. The imag dly. Give your sugges	eient and consequently the e of both the federal and tions how to improve the	(20)
Q. No. 4.	Leadership is a process and not a post the achievements of legitimate goals. leadership theories. Also mention so effective and exceptional public admir	Identify the three pha me of the common tra	ses of the development of	(20
Q. No. 5.	Public administration is an activist parand implementation becomes a stand of the common conditions/factors who policy in a country like Pakistan.	ard public administrati	on function. Discuss some	(20
Q. No. 6.	Corruption is an evil which has play societies. Also sources of corruptions Having this in mind what are variou public sectors organizations.	s are similar in all pub	lic administrative settings.	(20)
Q. No. 7.	Discuss why it may be in the best administrators to have public admini- the area of economics, political science	stration background rate		(20
Q. No. 8.	Write a comprehensive note on any T (a) Scientific Management (b) Human Relation Approach	WO of the following:	(10 each)	(20)

Theory X and Y of Motivation

FEDERAL PUBLIC SERVICE COMMISSION

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

Roll Number

PUNJABI

TIME ALLOWED:	THREE HOURS	PART-I (MCQs)	MAXIMUM MARKS = 20
	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.

www.czzmoo.com www.i	<u>اا</u> نوٹ: ایس حصے و چوں پنچ (5) سوالال دے جواب دیو۔	
(16)	ن دیاں علامتاں وچ حنیاں دیاں کئی سلحاں نیں ۔ویرواکرو۔	سوال فمبر2: شاو ^{حسي} ر
(16)	ا جود نے نظریۂ شق بارے اپنے و چار دسو۔	سوال نمبر 3: سلطان.
(16)	* ويان نظمال تمن الميه دابيان نين؟ مجروي گل كرو_	سوال فمبر4: ''رّر فجن'
(16)	،'' وچ پنجا بی او یب دیاں کیدفه مداریاں دسیاں تھیاں نیں؟	سوال قبر5: "پور <u>ئ</u>
(16)	بادیاباویا''وے ڈرامیاں و چوں کیہ مبق ملدااے؟ نتارویں گل کرو۔	سوال فمبر6: "بول مخ
(16)	نے دریا'' وے کر داراں ہارے کھلارویں گل کرو۔	سوال فمبر7: " ديوا_
(16)	ں وج پنجاب دی تاریخ وے جھلکارے ملدے نیں ۔ مثالاں را میں گل کرو۔	سوال نمبر8: اوك كيتا
(16)	ویاں و چول کسے دواُتے نوٹ محصو '' چی سر کار'' دی سیرتی اوب وچ تھاں '' چی سر کار'' '' پنجا بی بولی دا پچھوکڑ''	(الف)
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Roll Number

(10)

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) 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.

SECTION-A

- Q. 1. (a) Let H and K be normal subgroups of a group G. Show that HK is a normal subgroup of G.
 - Let H and K be normal subgroups of a group G such that $H \subseteq K$. Then show that

(b)
$$(G/H)/(K/H) \cong G/K$$
 (10) (20)

- Q. 2. (a) Show that every finite integral domain is a field. (10)
 - (b) Consider the following linear system, (10) (20)

$$x + 2y + z = 3$$
$$ay + 5z = 10$$
$$2x + 7y + az = b$$

- (i) Find the values of a for which the system has unique solution.
- (ii) Find the values of the pair (a, b) for which the system has more than one solution.
- Q. 3. (a) Find condition on a,b,c so that vector (a,b,c) in \mathbb{R}^3 belongs to (10)

$$W = span \{u_1, u_2, u_3\}$$
 where $u_1 = (1,2,0), u_2 = (-1,1,2), u_3 = (3,0,-4).$

(b) Let W_1 and W_2 be finite dimensional subspaces of a vector space V. Show that $dimW_1 + dimW_2 = dim (W_1 \cap W_2) + dim (W_1 + W_2)$

SECTION-B

Q.4. (a) Let
$$f(x) = \begin{cases} x^2 & \text{if } x \le 1 \\ x & \text{if } x > 1 \end{cases}$$
 (10)

Does the Mean Value Theorem hold for f on $\left[\frac{1}{2},2\right]$.

(b) Calculate the.
$$\lim_{x\to 0} \frac{lnsin3x}{lnsinx}$$
 (10) (20)

Q. 5. (a) Evaluate
$$\int_{-1}^{5} |x-2| dx$$
. (10)

(b) Prove that
$$f_{xy}(0,0) \neq f_{yx}(0,0)$$
 if (10) (20)

$$f(x,y) = \begin{cases} x^2 y \sin \frac{1}{x} & \text{when } x, y \text{ are not both } 0\\ 0 & \text{when } x, y \text{ are both } 0 \end{cases}$$

Page 1 of 2

PURE MATHEMATICS

- **Q. 6.** (a) Find the area of the region bounded by the cycloid $x = a(\theta \sin \theta), \ y = a(1 \cos \theta)$ and its base. (10)
 - (b) Find the equation of a plane through (5,-1,4) and perpendicular to each of the planes (10)

x + y - 2z - 3 = 0 and 2x - 3y + z = 0

SECTION-C

- **Q. 7.** (a) Express $\cos^5 \theta \sin^3 \theta$ in a series of sines of multiples of θ . (10)
 - (b) Use Cauchy's Residue Theorem to evaluate the integral $\int_C \frac{5z-2}{Z(Z-1)} dz$ where C (10) (20) is the circle |z| = 2, described counter clock wise.
- Q. 8. (a) Find the Laurent series that represent the function $f(z) = \frac{z+1}{z-1}$ in the domain $1 < |z| < \infty$.
 - (b) Expand f(x) = sinx in a Fourier cosine series in the interval $0 \le x \le \pi$. (10)



FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION-2018** FOR RECRUITMENT TO POSTS IN BS-17

Roll Number

UNDER THE FEDERAL GOVERNMENT

PUSHTO TIME ALLOWED: THREE HOURS MAXIMUM MARKS = 20PART-I (MCOS) **PART-I(MCQS): MAXIMUM 30 MINUTES MAXIMUM MARKS = 80 PART-II** NOTE: (i) Part-II is to be attempted on the separate Answer Book. (ii) Attempt ONLY FOUR questions from PART-II. Answer must be written in respective language except where specified in the Ouestion paper. ALL questions carry EOUAL marks. (iii) All the parts (if any) of each Question must be attempted at one place instead of at different (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 (vi) Extra attempt of any question or any part of the attempted question will not be considered. **PART-II** سوال نمبر 2: (a) د لانديني وركړې شوې انګرېزې عبارت په معيارې پښتو كښي ترجمه اوكړئ ـ (14)These observations aside, RuhiMataloona is still the most complete, the most accessible, and the most well-known of all collections of Pashto proverbs. The collection is complete in the sense that it has incorporated most of the previous smaller collections produced by foreign and local researchers. The author acknowledges at least nine such earlier collections from which he has benefited because of these multiple qualities, this compilation is one of the most recommended one for those interested in the study of Pashto proverbs. د لاندينو نه صرف د دربو په پښتو کښي ترجمه اوکرئ ـ (06) (2 each)

- (i) Who was doing to do this except me?
- (ii) They asked the cat to watch the meat.
- (iii)Oh partridge, you are the victim of your own tongue.
- (iv)Do not examine the teeth of the animal that has grown up in your manger.
- (v) Community is not created by force.

د لاندینی یښتو عبارت په معیاری انګریزیکښی ترجمه اوکړئ ـ سوال نمبر 3: (a) (14)د پښتون قوم بالخصوص د اعلٰی تعلیم یافته خلقو د خپلی ژبی سره د همدردی او محبت فقدان دے ـ که چرې تعلیم یافته طبقه د خپلی ژبی شعر او ادب ته د عزت او همدردی په نظر او گوری او خیلو وسائلو او ذُرانعو يه بنياد د پښتنو اديبانو، محققينو او ليكونكو حوصله افزائي اوكړي نو پښتو ژبه به علمي مقام ته اورسی - محض سیاست، تجارت او نورو ډېرو خبرو دپاره جدوجهد کول او خپلې ژبې ته توجه نه ورکول د بي خونده او بي کاره قومونو کار وي ـ په کار ده چي حکومت د دی ژبي سرپرستي اوکړي ـ د پښتو د لاندينومتلونو نه د درېو متلونو په انګرېزۍ کښي ترجمه اوکړئ ـ (06) (2 each)

(b)

(ii) تر خوړل ئى لا اميد سنة دے ـ (i) تقدیر یه تدبیر یوری خاندی ـ (iv) چى يه خيله ورشى بيا څه له مرور شى -(iii) چرته چی ډب وی هلته ادب وی -

(v) چي اوښان ساتي نو دروازې دنګي ساته ـ

سوال نمبر 4: پښتانه ارين دي که بني اسرائيل؟ په دليل سره يري بحث اوکرئ -(20)

سوال نمبر 5: د خوشحال خان ختک یه رزمیه شاعری مدلل لیک اوکری -(20)

سوال نمبر 6: د حميد بابا په شاعرۍ کښې د سوز او ګداز خصوصيات د هغهٔ د نازک خيالي په ژبه څرګند کړئ ـ (20)

سوال نمبر 7: د پښتو په جديد شاعرانو کښي د غني خان په ژوند او شاعري کوټلے ليک او کړئ ـ (20)

فولكلورڅه ته وائي؟ پښتوفولكلور كښي تپه د پښتنو د ژوند أنينه ده ـ تاسو دې سره څومره متفق يئ، سوال نمير 8: (20)مثالونو سره ئي واضح كرئ



Roll Number

سو ال نمير 9:

SINDHI

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80
NOTE OF PARTY AND A 1		

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

- سوال نمبر 2: سنڌي زبان جي قدامت متعلق پيش ڪيل نظرين مان او هان جنهن به نظريي جا طرفدار آهيو، ان کي دليلن سوال سان واضح ڪريو؟
- سوال نمبر 3: سنڌي لکاوٽ جي تاريخ تي نئين صدي ۾ جيڪا تحقيق ٿي آهي، ان جي نتيجن کي او هين سُهڻي اسلوب سان (20) نروار ڪريو؟
- سوال نمبر 4: شيخ اياز جي شاعري پنهنجي زبان ۽ بي ساخته اسلوب سبب عام جي ته آهي، پر فهم جي لحاظ (20) کان مٿاڇري مت کان به مٿي آهي، ان راءِ کي کولي ڀرپور ادبي بحث سان نتيجا ظاهر ڪريو.
- سوال نمبر 5: انگريزن جي دؤر ۾ سنڌي ٻولي ۽ ادب جي ترقي ۽ اشاعت لاءِ حكومت ڪهڙا اپاءَ اختيار ڪيا؟
- سوال نمبر 6: آغا سليم كي افسانوي اديب جي حيثيت سان ته ناماچار حاصل هو، پر لطيف شناسي لاءِ سندس (20) كيل كوششون كيتري قدر قابل تعريف چئي سگهجن ٿيون، مثال ڏيئي سمجهايو.
- سوال نمبر 7: كن به بن عالمن جي ادبي خدمتن تي تفصيلي روشني وجهو. 1. ڊاكٽر عمر بن محمد دائودپوٽو 2. عثمان علي انصاري 3. ڊاكٽر الهداد بوهيو 4. ڊاكٽر عبدالجبار جوڻيجو
- سوال نمبر 8: هيٺ ڏنل سنڌي فقري جو انگريزي ۾ ترجمو ڪريو؟

 بولي ڪنهن به قوم کي سمجهڻ جي ڪُنجي آهي. سنڌي ٻولي خصوصي انداز ۾ سنڌ جي تهذيب ۽ تمدن

 جي خوبصورت انداز ۾ ترجماني ڪري ٿي. هڪ صلح پسند، محنتي، زراعتي پيشي سان وابسته ثقافت

 کي ظاهر ڪري ٿي. سنڌ جي زرعي زمينن تي حڪمرانن جي نظر هئي. زمين حاصل ڪرڻ لاءِ هر

 قسم جا حربا ۽ جواز پيش ڪري انهن تي قابض ٿيا.
- Sindhi has absorbed a considerable amount of Arabic and Persian words which have either been Sindhized in from or they have become an integral part of the Usage in their original Form. Beside this kind of vocabulary, a very large number of Arabic and Persian words have been borrowed and used particularly by men of letters and poets during the last 150 years. Since these words and idioms have become a part of the published literature and are being increasingly used now under the influence of Urdu, they have been included in this lexicon to make it serviceable to all.



Roll Number

SOCIOLOGY

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 separ		

- (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. Differentiate between Ethnocentrism and Xenocentrism with examples. Which one and how is important in damaging the peace and development situation in Karachi? Discuss with logic and evidence on the Issue.
- Q. No. 3. Make a comparative and analytical discussion on the Social Contract Theory and the (20) Organismic Theory while developing your thesis with a logical conclusion.
- Q. No. 4. How do you see the future of Pakistani society resulting from the effect of (20) Industrialization, Modernization, Urbanization and Modern means of communication upon social change processes? Discuss with examples.
- Q. No. 5. How do you see the future of major cities in Pakistan? Discussing by focusing on the issues of water and foods security and the situation of terrorism and extremism with examples and data.
- Q. No. 6. Discuss the structure and functions of Pakistani family with examples, keeping in view the changes occurring. How do you see the future of Pakistani Family System? Make a research based argument.
- Q. No. 7. Ibn-e-Khaldun but not August Comte is the founder of Sociology? Make your argument in favour or against this thought with logic and examples from the historical development of sociology.
- Q. No. 8. Write short notes on the following: (10 each)
 - (i) Research process in sociology
 - (ii) Deviance and street crime in Pakistan



Roll Number

STATISTICS

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 20**PART-I(MCQS): MAXIMUM 30 MINUTES PART-II** MAXIMUM MARKS = 80NOTE: (i) Part-II is to be attempted on the separate Answer Book. 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 Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. 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. Use of Calculator is allowed. (vii) Use of statistical table is allowed. (viii) PART-II SECTION - A Q. 2. The mean and standard deviation of a sample of 20 observations were found to be 75 and 2.5 respectively. On checking the original figures, it was discovered that one observation which was actually 68, was copied down as 86. Find the correct mean and standard deviation. Given below is the distribution of monthly income (to the nearest rupee) of 100 employees **(b)** working in each of two banks A and B. Compare the variations in salaries of employees by calculating coefficient of variation in each case? Income Rs. 000 35 - 4980 - 9495 - 109110 - 12450 - 6465 - 7910 15 20 10 10 15 20 40 15 3 (20)What can you say of the skewness in each of the following cases? Mean = Rs. 39000 and Mode = Rs. 45000(ii) The median is 79.39, which the two quartiles are 50.25 and 95.00. (iii) Mean = Rs. 39000 and Median = Rs. 38500 A box contains 12 red and 20 white rose flowers. Flowers are picked up at random one by Q. 3. (a) one without replacement. What is the probability that: (i) The third one is red given that the first 2 are white? (ii) There are 3 red and 2 white flowers in the first five picked up? Two hundred and fifty passengers have made reservations for an airplane flight. If the (8)probability that a passenger who has a reservation will not show up is 0.005, what is the probability that exactly five will not show up? A soft drink machine is regulated so that it discharges an average of 250 milliliters per glass. If the amount of drink is normally distributed with a standard deviation equal to 15 millimeters, then: (i) What fraction of the glasses will contain more than 280 milliliters? (ii) What is the probability that a glass contains between 240 milliliters to 260 milliliters. O. 4. (a) What is a multiple regression? Explain the basic differences between simple regression and multiple regression. Differentiate between multiple correlation and partial correlation. **(b)** (5)Find the coefficient of correlation between persons employed and cloth manufactured in a textile mill. Interpret the result Persons employed 139 219 140 213 180 215 249 280

26

42

51

60

55

Cloth Manufactured

(000 meters)

STATISTICS

SECTION-B

- Q. 5. (a) What is meant by an experimental design? Describe in brief the basic principles of (8) experimental designs.
 - f (12) **(20)**
 - (b) A consumer agency wanted to find out if the mean time it takes for each of three brands of medicines to provide relief from a headache is the same. The 1st drug was administrated to six randomly selected patients, the 2nd to four randomly selected patients and the 3rd to five randomly selected patients. The following table gives the time (in minutes) taken by each patient to get relief from a headache after taking the medicine.

Drug 1	Drug 2	Drug 3
25	15	44
38	21	39
42	19	54
65	25	58
47	com www	73
52	Com www	e e a impo em

At 5% significance level, will you conclude that mean time taken to provide relief from a headache is the same for each of the three drugs?

- Q. 6. (a) The management of a super market wanted to investigate if the percentages of men and women who prefer to buy local brand products over the imported products are different. A sample of 900 men shoppers at the company's super markets showed 400 of them prefer to buy local brand products over imported brand. Another sample of 1200 women shoppers showed that 420 of them prefer to buy local brand products over the imported brand.
 - (i) Construct a 99% confidence interval for the difference between the two proportions.
 - (ii) At 5% significance level, can you conclude that the difference between all male customers at this market is less than that by all female customers?
 - (b) An auto manufacturing company wants to estimate the variance of kilometers per litre for its one of the auto model. A random sample of 25 cars of this model showed that the variance of kilometres per litre for all such cars are approximately normal. Test at the 5% significance level whether the sample result indicates that the population variance is different from 1.05.
 - (c) A researcher wanted to study the relationship between gender and owning expensive cell phones. A sample of 1000 young people were taken and information given are in the following table. (7)

Status cell phones	Male	Female	Total
Own	300	400	700
Do not own	200	100	300
Total	500	500	1000

At the 5% level of significance, can we conclude that gender and owning an expensive cell phone are related for all young people?

Q. 7. (a) Define and distinguish between:

(6)

(20)

- (i) Target and Sampled Populations
- (ii) Simple Random Sampling and Stratified Random Sampling
- (iii) Sample Distribution and Sampling Distribution
- **(b)** Explain with examples the properties of a good point estimator.

(6)

- (c) The heights of a large number of shrubs of the same kind produced for sale by a horticultural nursery are normally distributed with mean 1.14 m and standard deviation 0.25 m. Fifty samples, each consisting of 100 shrubs are selected. In how many of these samples would you expect to have the mean sample being to be (i) greater than 1.16 m; (ii) between 1.13 m and 1.18 m?
- Q. 8. (a) What are the various statistical organizations in Pakistan? Discuss the main functions of (10) Statistics Division and NADRA.
 - (b) Calculate age-specific fertility rates, total fertility rate, gross-reproduction rate and net reproduction rate from the following data, assuming sex-ratio at birth to be 106.18 per cent

Age-group (years)	Female Population (000)	Registered Births	Probability of Survival
15 – 19	1,424	27,639	0.9645
20 - 24	1,531	226,817	0.9607
25 - 29	1,653	280,506	0.9554
30 - 34	1,658	194,526	0.9489
35 - 39	1,741	113,966	0.9416
40 - 44	1,669	32,363	0.9324
45 - 49	1,561	2,215	0.9201

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		and the contract of the contra		



Roll Number

TOWN PLANNING & URBAN MANAGEMENT

TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS	
	Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Ans No Page/Space be left blank between be crossed.	PART-II. ALL question in must be attempted at or swer Book in accordance we the answers. All the blan	with Q. No. in the Q.Papk pages of Answer Book	ifferent ber. bk must
	<u>P</u>	ART-II		
Q. No. 2.	As a town planner, suppose you have be master plan of a metropolitan city. De other professionals will be engaged b provided by them for the successful com	evelop your project team by you. Also discuss, wh	by explaining which nich services will be	(20)
Q. No. 3.	Explain the general urban form charadiscuss whether these characteristics of sustainable development?			(20)
Q. No. 4.	Differentiate 'urbanization' from 'urban of these processes simultaneously? Disc			(20)
Q. No. 5.	Discuss different ways and approaches people in order to promote equitable dev	_	st for the low income	(20)
Q. No. 6.	Can socio-environmental problems of u guidelines? While discussing, provide possible.		_	(20)
Q. No. 7.	Which various factors are responsible for stakeholders over the use of natural re- resolve the conflicts arising from such in	esources? Also, suggest	_	(20)
Q. No. 8.	Write short note on any TWO of the fol	lowing:	(10 each)	(20)
	(a) Significance of GIS applica	tion in urban planning		
	(b) Role of building and develo	pment control in managin	g urbanization	
	(c) Planning features of Indus V	Valley Civilization		
	***	*****		

Roll Number

URDU LITERATURE

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

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

- (ii) Attempt ALL questions
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places
- (iv) 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

موال نبر 2 (الف) درج ذیل میں ہے کی ایک جزو کی تشریح سجیے اور شاعر کانام بھی کھیے۔

جزواوّل (۱) آگی دام شنیدن جس قدر جا ہے بچھائے (۲) عشرت قطرہ ہوریا میں فنا ہوجانا
مدعا عنقا ہے اپنے عالم تقریر کا
درد کا حدے گزرنا ہے دوا ہوجانا
(۳) عاشقی صبر طلب اور تمنیا ہے تاب
دل کا کیار نگ کروں خون جگر ہوئے تک

(۵) مِل بَى جائے گارفتگال کائر اغ اور پچھون پھرواداس اُداس

خودی میں ڈوب جاغافل! بیسرِّ زندگانی ہے مُصاف زندگی میں سیرت فولا دپیدا کر شبستان محبت میں حریر و پر نیاں ہوجا گزرجابن کے پیل بیندر وکو دو بیاباں ہے تر علم ومحبت کی نبیس ہے انتہا کوئی تر علم ومحبت کی نبیس ہے انتہا کوئی

(ب) مندرجہ ذیل میں ہے کوئی ایک سوال کا جواب دیجیے۔ ''شب رفتہ'' کے حوالے ہے مجید امجد کی نظم نگاری کی فکری اور محسوساتی جبتوں کا احاطہ سیجیے۔

ہے۔ فیض نے اردوکی کلا سیکی شاعری کی اعلیٰ روایات اورا ظہار کے سانچوں میں جدید موضوعات اور نئی حسیات کو داخل کیا تفصیلی بحث سیجیے۔

سوال فمبر 3 (الف): سیرت النبی ایک او بی شابکار ہے۔ اس کا مقدمہ میں علامہ جبلی نے سیرت کے لیے جن اُصولوں کا ذکر کیا ہے، وہ کیا ہیں اوران پڑھیلی کی (15) سالت کیاں تک یوراائر تی ہے؟

> ید مشاق احمد یو بنی نے کن کن وسیلوں سے مزاح پیدا کیا ہے؟ ''آبگم'' کی روشنی میں تفصیل سے بیان سیجے۔

(ب) مندرجہ ذیل اقتباسات میں سے کسی ایک کی تشریح سیجھے نیز مضمون کاعنوان اور مصنف کانا م بھی لکھیے۔ '' جہا آ دمی کی سوچ آس کی اُنگلی کپڑ کے کشال کشال ہر چھوڑی ہوئی شاہراہ ،ایک ایک پگڈیڈی ،گلی کو سپے اور چورا ہے پر لے جاتی ہے۔ جہاں جہال رائے بدلے تھے،اب وہاں کھڑے ہوکرانسان پر منکشف ہوتا ہے کہ در حقیقت رائے نہیں بدلتے ،انسان خود بدل جاتا ہے۔سڑک کہیں نہیں جاتی۔ ووتو وہیں کی وہیں رہتی ہیں۔مسافر کہاں ہے کہاں پہنچ جاتا ہے۔راہ بھی گمنییں ہوتی۔راہ والے گم ہوجاتے ہیں۔''

"اے پہلی باریاد آیا کہ وہ تو خالی ہاتھ لا ہور جار ہی تھی۔ وہ تو اپنی کمائی گھر ہی میں ہول آئی تھی۔ اُس کا گفن قو وہیں بکے میں رکھارہ گیا تھا۔ زندگی ہے۔ اتن محبت بھی کیا کہ انسان اے بچانے کے لیے بھا گے تو اپنا گفن ہی بھول جائے۔اور یہ گفن اُس نے کتنی مشقت سے تیار کیا تھا۔اور اِس پر کتنے چاؤ ہے کلمہ شہادت کھوایا تھا خاک پاک ہے۔ اچھے گفن اورا چھے جنازے ہی کے لیے تو وہ اب تک زندہ تھی۔"

Page 1 of 2

وال فمبر 4: محى الك نثريار _ كي تيض سيجير -

(۱) "شاعری کیا ہے؟ قریب قریب آیک و بیابی سوال ہے جیسا کہ میں سوال کہ شاعر کیا ہے؟ ایک کا جواب دوسرے کا جواب ہے۔ کیوں کہ بید

ایک ایسافرق ہے جوخود شاعرانہ فطرت کا متیجہ ہے۔ شاعرانہ فطرت خود شاعر کے ذہمن کے خیالات ، جذبات اور تشانوں کو سہارا دیتی ہے

اور انہیں تبدیل کرتی رہتی ہے۔ شاعر ، اپنے عالم کمال میں ، انسان کی سماری روح کو ترکت میں لے آتا ہے۔ انسان کی ساری صلاحیتوں

کو ، ان کی اضافی قدر وقیمت اور منصب ورتبہ کے مطابق ایک دوسرے کے ماتحت لے آتا ہے۔ وہ ہم آ ہنگی اور اتحاد کی روح پیدا کرتا ہے

جوایک دوسرے سے چوستہ اور ایک جان کردیتی ہے۔ بیٹمل وہ اس امتزا تی اور جاد و گھری قوت کے ذریعے کرتا ہے جس کو خیل کا نام دیا

جاتا ہے۔ بیقوت پہلے ارادہ اور تضمیم کے ذریعے متفاویا ہے ربط صفات کے درمیان تو از ان اور مفاہمت پیدا کر کے خود کو ظاہر کرتی ہے۔ "
وحیما اور چھیا ہوا ہوتا ہے ۔ کے ڈریعے متفاویا ہے ربط صفات کے درمیان تو از ان اور مفاہمت پیدا کر کے خود کو ظاہر کرتی ہے۔ "

(۲) '' آدی کئی نہ کئی معاشرے میں زندگی بسر کرتا ہے اور کوئی بھی معاشر ہ ایسانیوں ہے جس پر ایک خول روایات کہن کا چڑھا ہوا نہ ہو۔
جس میں زندگی بسر کرنے ،اشیابنانے ، پیدا کرنے اور ڈبنی گلیقات کو وجود میں لانے کی کوئی روایت ، کمز وریا مضبوط نہ ہو، اس کا کوئی
تاریخی چلن شہو۔ چتاں چاس روایت بیاتاریخی چلن کوگز رنے والی نسل ، نئی نسل اور آنے والی نسل کو نتقل کرتی رہتی ہے خوا واس منتقلی کا
طریق کا رزیانی ہو بچریری ہویا تملی مظاہر سے کا ہو، یہ بات بہت سامنے کی ہے کہ برقن یا ہنر کی ایک روایت ہوتی ہے اور جب کسی
معاشر سے میں کئی فن یا ہنر کی روایت نہیں ہوتی ہے اور وہ فن یا ہنر بقائے حیات کے لیے ضروری ہوتا ہے تو اے دوسر ہماشر ول سے قرض لیتے ہیں اور اپنے معاشر سے کا فنسی کیفیت کے مطابق اس کو پر وان چڑھانے کی کوشش کرتے ہیں ۔ اس کی متعدد
معاشر ول سے قرض لیتے ہیں اور اپنے معاشر سے کا فنسی کیفیت کے مطابق اس کو پر وان چڑھانے کی کوشش کرتے ہیں ۔ اس کی متعدد
مثالیں دی جا سکتی ہیں ۔ اس کے میصنی ہوئے کہ لین دین کا تمل بھنا تھے تا اور معاشر ول کے درمیان ، روایات اور رہم وروائے کی
مثالیں دی جا سکتی ہیں ۔ اس کے میصنی ہوئے کہ لین دین کا تمل بھنات ہے اس کی نظیر کسی دوسر سے معاشر سے ہیں نہیں ماتی ہے ، بہت مشکل
و نیا ہیں بھی ہوتا ہے ۔ چتال چہ کی بھی روایت کے بارے ہیں یہ کہنا کہ اس کی نظیر کسی دوسر سے معاشر سے ہیں نہیں میں ہیں ہیں۔ ، بہت مشکل

سوال فمبر 5: تحسى ايك موضوع برمضمون تحرير ليجيئة ________________________________

(۱) وجودیت کے فلسفیانہ نظریات اور اُردوادب پراس کے اثرات کا جائز و کیجے۔

(٢) پاکستانی ادب کیا ہے؟ اس کی تھکیل وروایت اور ارتقائی سفر پر تفصیل ہے روشنی ڈالیے۔



Roll Number

ZOOLOGY

TIME ALLOWED: THREE HOURS PART-I (MCQS) PART-I(MCQS): MAXIMUM 30 MINUTES PART-II				MAXIMUM MARKS = 20 MAXIMUM MARKS = 80	
NOTE: (i) (ii) (iii) (iv) (v)	Attempt O All the pa places. Candidate No Page/S be crossed	must write Q. No. in the An pace be left blank between	n PART-II. ALL quest in must be attempted at aswer Book in accordant the answers. All the b	t one place instead of at diffe ace with Q. No. in the Q.Paper. lank pages of Answer Book n	cenn
(vi)	Extra atte	mpt of any question or any p	eart of the attempted qu	estion will not be considered.	COST
		PA	RT – II		
Q. No. 2.	Discuss in detail how do the marine and terrestrial animals meet the problems of salt and water balance?				
Q. No. 3.	Differentiate between endocrine and exocrine glands. Through how many kinds of receptors do the hormones act and how is the secretion rate controlled?				
Q. No. 4.	Arthropod exoskeleton is the most complex of invertebrate integuments. Describe its structure and explain the difference in the way the cuticle is hardened in Crustaceans and in insects.				
Q. No. 5.	Members of such a large and diverse phylum as mollusca impact humans in many ways. Discuss. Also name classes of the phylum with two differential characters for each.				(20
Q. No. 6.		scuss parasitic adaptation an rite note on structural and fu	_	_	(20
Q. No. 7.	Metamerism profoundly influences virtually every aspect of annelid structure and function, such as the anatomical arrangement of organs that are coincidentally with Metamerism. Discuss through logical reasoning.				
Q. No. 8.	(a) Ga (b) Ca (c) M (d) Fo (e) So	rt notes on any FOUR of the as exchange in reptiles arbohydrates: Nature's Most endel's Law of inheritance od chain ocial Behaviour and its impactomposition of blood	Abundant Organic Sub	(05 each)	(20