

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION - 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT Roll No.

ESSAY

MAXIMUM MARKS: 100
REHENSIVE ESSAY (2500-3000 words) on any ONE of use different forms of discourses, e.g. exposition, tion. Credit will be given for organization, relevance and the answer. All the blank pages of Answer Book must be
's progress? etoric of the privileged, and capitalism will return
y engagements by the United Nations; is the world
ssue.
COM WWW.CIIMOO.COM WWW.CIIMOO.COM WWW.CIIMOO.COM
Can nationalism be really inclusive?
e, yet change is a simulation.
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But why one should not choose the safe haven of

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Roll Number

ENGLISH (PRECIS & COMPOSITION)

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 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 and also suggest a suitable title:

(20)

All the evils in this world are brought about by the persons who are always up and doing, but do not know when they ought to be up nor what they ought to be doing. The devil, I take it, is still the busiest creature in the universe, and I can quite imagine him denouncing laziness and becoming angry at the smallest waste of time. In his kingdom, I will wager, nobody is allowed to do nothing, not even for a single afternoon. The world, we all freely admit, is in a muddle but I for one do not think that it is laziness that has brought it to such a pass. It is not the active virtues that it lacks but the passive ones; it is capable of anything but kindness and a little steady thought. There is still plenty of energy in the world (there never were more fussy people about), but most of it is simply misdirected. If, for example, in July 1914, when there was some capital idling weather, everybody, emperors, Kings, arch dukes, statesmen, generals, journalists, had been suddenly smitten with an intense desire to do nothing, just to hang about in the sunshine and consume tobacco, then we should all have been much better off than we are now. But no, the doctrine of the strenuous life still went unchallenged; there must be no time wasted; something must be done. Again, suppose our statesmen, instead of rushing off to Versailles with a bundle of ill-digested notions and great deal of energy to dissipate had all taken a fortnight off, away from all correspondence and interviews and what not, and had simply lounged about on some hillside or other apparently doing nothing for the first time in their energetic lives, then they might have gone to their so-called peace conference and come away again with their reputations still unsoiled and the affairs of the world in good trim. Even at the present time, if half of the politicians in Europe would relinquish the notion that laziness is crime and go away and do nothing for a little space, we should certainly gain by it. Other examples come crowding into mind. Thus, every now and then, certain religious sects hold conferences; but though there are evils abroad that are mountains high, though the fate of civilization is still doubtful, the members who attend these conferences spend their time condemning the length of ladies' skirts and the noisiness of dance bands. They would all be better employed lying flat on their backs somewhere, staring at the sky and recovering their mental health.

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

Education ought to teach us how to be in love and what to be in love with. The great things of history have been done by the great lovers, by the saints and men of science, and artists, and the problem of civilization is to give every man a chance of being a saint, a man of science, or an artist. But this problem cannot be attempted, much less solved, unless men desire to be saints, men of science, and artists. And if they are to desire that continuously and consciously they must be taught what it means to be these. We think of the man of science or the artist, if not of the saint, as a being with peculiar gifts, not as one who exercises, more precisely and incessantly perhaps, activities which we all ought to exercise. It is a commonplace now that art has ebbed away out of our ordinary life, out of all the things which we use, and that it is practiced no longer by workmen but only by a few painters and sculptors. That has happened because we no longer recognize the aesthetic activity of the spirit, so common to all men. We do not know that when a man makes anything he ought to make it beautiful for the sake of doing so, and that when a man buys anything he ought to demand beauty in it, for the sake of beauty. We think of beauty if we think of it at all as a mere source of pleasure, and therefore it means to us ornament, added to things for which we can pay extra as we choose. But beauty is not an ornament to life, or to the things made by man. It is an essential part of both. The aesthetic activity, when it reveals itself in things made by men, reveals itself in design, just as it reveals itself in the design of all natural things. It shapes objects as the moral activity shapes actions, and we ought to recognize it in the objects and value it, as we recognize and value moral activity in actions. And as actions empty of the moral activity are distasteful to us, so should objects be that are empty of the aesthetic activity. But this is not so with most of us. We do not value it; do not even recognize it, or the lack of it, in the work of others. The artist, of whatever kind, is a man so much aware of the beauty of the universe that he must impart the same beauty to whatever he makes. He has exercised his aesthetic activity in the discovery of the beauty in the universe before he exercises it in imparting beauty to that which he makes. He has seen things in that relation in his own work, whatever it may be. And just as he sees that relation for its own sake, so he produces it for its own sake and satisfies the desire of his spirit in doing so. And we should value his work; we should desire that relation in all things made by man, if we too have the habit of seeing that relation in the universe, and if we knew that, when we see it, we are exercising an activity of the spirit and satisfying a spiritual desire. And we should also know that work without beauty means unsatisfied spiritual desire in the worker; that it is waste of life and common evil and danger, like thought without truth, or action without righteousness.

Questions: 1. What has been lamented in the text?

2. What is the difference between ordinary man and an artist?

(4)

2. What is the difference between ordinary man and an artist?3. How can we make our lives beautiful and charming?(4)

4. What does the writer actually mean when he says, "Beauty is not an ornament to life"? (4)

5. Do art and beauty affect our practical life and morals? Justify whether you agree or disagree. (4)

ENGLISH (PRECIS & COMPOSITION)

Q. 4.	(a)	(i) In the acci		broken and my legs bruis ogans against the government		(5)
		is they wanted mercuse				
		(iv) John could (v) I who have	home.			
				ning but also for coaching		nome.
		(vii) When he v	visited the fair last time, h	e bought no less than twe		
	w.caamo		s were grazing in the field		www.gxamoo.com	www.cranusi.com
	(b)			FIVE) after filling in the	e blanks appropri	ately: (5)
		10,432111 10 10 10 14 4 4 4 4 4 1	this car this price.		(d) on	
		(a) for (ii) Send these l	(b) in books my home ac	(c) at	(d) on	
				(c) in	(d) to	
		(a) on (iii) Monkeys liv	re trees.		(d) to	
		(a) in	(b) at	(c) upon	(d) on	
		(iv) I said it		nm www.etamon.com		
		(a) at	(b) on	(c) to	(d) upon	
			erthe receipt of			
			(b) realized	. ,	(d) acknowl	edged
			n students don't like Am			a I
			take care of our paren	(c) neither don't I	(d) neither d	10 1
			(b) would		(d) ought to	
			in the garden the		(a) oagii to	
			(b) was digging		(d) had dug	
Q. 5.	(a) C	hoose the ANAL C	CV of words written in	n capital letters. Attempt	ony FIVE	(5)
Q. J.		LION: ROAR	of of words written in	(ii) SHADOW		
			er (b) Goat: Bleat	` /		Image : Object
			wl (d) Elephant : To		` '	
	(ii	i) CLOT : BLOOD	no com www.riimoo.co	(iv) FEARFUL:	COWER	
			(b) Curdle: M			Weak: Exercise
	w.cxami		amphor (d) Brew: Co			Wise: Dispute
	(v) EXPEDITE : HA		(vi) WOOD: FU		Tues Cardling
		(a) Conscript: V (b) Diver: Make		(a) Father: (c) Soil: C		Tree : Seedling Stone : Sculpture
		(c) Facilitate : M		(viii)LECHER :	•	Stolle. Sculpture
		(d) Satirize : Pr		(a) Pith: H		Glutton: Greed
	(v	ii) SURGEON : DI		(c) Busines		
		(a) Clown: Fat	(b) Actress: Beautif	al		
			l (d) Acrobat : Agile			
			ving text, where necessa		www.czzmoo.com	(5)
				nd he was suddenly met by		<u> </u>
				I the quaker I cannot delivitly give thee my purse fo		
				e robbers head and said i		
			obber there is no powder		now irrena my par	se buck of the weapon
0.6			1100.1.0th			
Q. 6.		xpiain the differences:	ence between the folio	wing word pairs (Any	FIVE) by using	(5)
			(ii) Veracity, Vo	racity (iii) Subtl	er. Sutler (iv)	Retenue, Retinue
				e (vii) Ding) Bony, Bonny
				ces which illustrate their		(5)
	` '	1		gh back (iii) Eager		Ring a bell
	(v) Be left holding th	ne baby (vi) Cap	in hand (vii) Hold	out a carrot (viii	Over the moon
Q. 7.	Tran	slate the following	ng into English hv kee	ping in view figurative	e/idiomatic expr	ession. (10)
We				ے یہ دیکھنا ضروری ہے کہ ہم		
	کہ اِس	ایسا عزیز رکھتے ہیں	ں لگتے یا پھر ہماری خاطر کو	، ہمارے عیب ان کو عیب ہی نہی	، تعریف کرتے ہیں۔ اول	دل کے موافق ہمار ی
	خوب	، کے ہمارا دشمن ہم کو	پوشی کرتے ہیں۔ بر خلاف اِس	ھپاتے ہیں۔ یا پھر اِن سے چشم	کے خیال سے اِن کو چ	کو رنجیدہ نہ کرنے
	کچھ	ا دیتا ہے۔ مگر اِس میر		مارے عیب نکالتا ہے، گووہ دشہ		
		· 사기 :		دوست کی نیکیوں کو بڑھاتا ہے ادہ اِحسان مند ہونا چاہیے کہ و		
	ي	ع درت ہے۔ اِس ساعر ۔	ہ ہمیں ہمارے حیبوں سے سے		ہمیں اپنے دسمن کا ریا ن دوست سے بہتر ثابت	
				-3,	7 2 0	



TIME ALLOWED: THREE HOURS

PART-I(MCQS): MAXIMUM 30 MINUTES

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION – 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

MAXIMUM MARKS = 20

MAXIMUM MARKS = 80

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

PART-II

PART-I (MCQS)

	Atte	ct-II is to be attempted on the separate Answer Book. empt ONLY FOUR questions from PART-II, selecting TWO questions from E CTION. ALL questions carry EQUAL marks.					
(iii		the parts (if any) of each Question must be attempted at one place instead of at dif	ferent				
(0.1)	plac						
(IV) (V)	No	ndidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Pape Page/Space be left blank between the answers. All the blank pages of Answer Book crossed.					
(vi) (vii)	Ext	tra attempt of any question or any part of the attempted question will not be considered to the consid	1100.com				
		PART-II					
		SECTION-I					
Q. No. 2.	(A)	What are the factors responsible for environmental pollution?	(5)				
Q:110.2.	(B)	THE REPORT OF THE PARTY OF THE	(5)				
	` /	What do you mean by Ozone depletion and how we can prevent its depletion?	(5)				
		What is an Acid Rain and how it is produced. Briefly describe the dangers	(5)				
		associated with it?					
Q. No. 3.	(A)	Explain in detail the common causes of Heart Attack.	(5)				
WWW.C11		Differentiate between drug addiction and drug abuse.					
		Draw the structure of human ear and briefly explain its functions.					
	(D)	What is the significance of Vitamins? Describe the sources, uses and deficiency	(5) (5)				
	nno.cor	symptoms of fat soluble vitamins.	noo.con				
Q. No. 4.	(A)		(5)				
	(B)	Differentiate between the occurrence of Lunar and Solar Eclipse?	(5)				
	(C)	Briefly explain what effects are produced due to Rotation & Revolution of Earth?	(5)				
	(D)	Most of the household appliances utilize 'DC' then why we generate 'AC' at power stations?	(5)				
O N 5		NWW.FIIMO.COM WWW.FIIMO.COM WWW.EXIMO.COM WWW.FXI					
Q. No. 5.	(A)	Differentiate between RAM and ROM.	(5)				
	(B)	Name three basic buses employed in a computer and explain what each is used for.	(5)				
	(C)	Draw a basic computer block diagram and briefly explain the function of each	(5)				
	(D)	part. Describe various types of computers classified on the basis of size, memory,	(5)				
	(D)	capacity and speed.	(3)				
		SECTION-II					
Q. No. 6.	(A)	Differentiate with examples between a "Pictogram" and "Histogram".	(5)				
www.caa	(B)	The teachers of a certain school were asked to indicate the average number of	(5)				
	(110) (11 (110) (11	hours they spend on marking students assignments each day. The following set of data was obtained	11100, con				
		6 4 3 1 2 2 3 1 4					
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
		Construct a frequency table and draw a Histogram illustrating the results.					
	(C)	How many teachers responded to the survey?	(5)				
	(D)	What the longest number of hours and most common number of hours are spent?	(5)				
		IN WWW.EIIIDO.COM WWW.EIIDO.COM WWW.EIIIDO.COM WWW.EIIIDO.COM WWW.EII	2 1 of 2				
		Page	$I \cup I \cup I \cup I$				

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

Q. No.7.	(A) (B)	meat purchased, Calculate the tota It takes Ali 30 m a paper. If they b finish marking at	he has to pay a coll amount of money inutes to mark a pooth start marking paths same time?	onsumption tax of that he has to pay, aper. Aslam only r papers at 10:00 AM	needs 25 minutes to M, at what time the	price. o mark ey will (5)
	(C)	Rawalpindi to M Islamabad and tw the fares for cities	Murree cost Rs.77 to tickets from Ras Islamabad and Mu	70 but three ticked walpindi to Murre urree from Rawalp		ndi to nat are
	(D)		his father's nephe is there between <i>I</i>		but not the brother	r of C. (5)
Q. No. 8.	(A)				o that Arham gets n gets. Find the sh	
	(B)	A school has end 400 students arriv	0 1	ould have last for	After 20 days a gro 24 days only. How	
	(C)	A man walks 2kr this he turns to N	n towards North. T	Then he turns to Ea cm. Again he turns	st and walks 10km towards East and	
	(D)	In a certain code		TER is written as l	RFUVQNPC. How	will (5)
			*******	**		Page 2 of 2
			n the career communit			



Roll Number

0.03

GENERAL KNOWLEDGE-II (CURRENT AFFAIRS)

TIME ALE	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
ww.cxamoo.	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 quest in must be attempted at swer Book in accordance the answers. All the b	to one place instead of at doce with Q. No. in the Q.Paplank pages of Answer Boo	per. ok must
(12)			MATERIAL PROPERTY OF THE PROPE	
	com www.ezzmoo.com www.ezzmoo.P	PART-II		
Q. No. 2.	Highlight the role of National Action Pl Pakistan. Critically analyze its outcomes		on of internal security of	(20)
Q. No. 3.	What measures do you suggest to imprespect to China-Pakistan Economic Coto sabotage it?	-		(20)
Q. No. 4.	Critically analyze the US-Russia relative security situation of Middle East.	ions in context of ISI	S and its impact on the	(20)
Q. No. 5.	Explain the salient contours of the U policy in South China Sea and latter's evaluate.	O 1		(20)
Q. No. 6.	The impact of burgeoning US-India strather region and Indian Ocean Region.	ategic partnership over	the security situation of	(20)
Q. No. 7.	Critically examine China's strategic visi	ion behind its 'One Bel	t, One Road' venture.	(20)
Q. No. 8.	(a). Analyze the effects of commissioni submarine (SSBN), INS <i>Arihant</i> e called K-4 over the strategic stability	equipped with nuclear		(20)
	(b). US-India in August 2016 signed Agreement (LEMOA) that will repeach other's military facilities to Comment.	portedly facilitate the t	two allies to use	

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Roll Number

GENERAL KNOWLEDGE-III (PAKISTAN AFFAIRS)

PART-I(M	CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
NOTE: (i)	Part-II is to be attempted on the separ		www.czamoo.com www.	caamo
(ii)	Attempt ONLY FOUR questions from	A		
(111)	All the parts (if any) of each Question places.	n must be attempted at	one place instead of at d	ifferer
(iv)	Candidate must write Q. No. in the Ans	swer Book in accordance	re with O No in the O Par	ner
(v)	No Page/Space be left blank between be crossed.	the answers. All the b	lank pages of Answer Boo	ok mus
(vi)	Extra attempt of any question or any pa	art of the attempted que	stion will not be considere	d.
	on www.ciamoo.com www.ciamoo.p	ART-II		
Q. No. 2.	Pakistan's national culture reflects u	nity in diversity. Elab	oorate.	(20)
Q. No. 3.	Discus the role of judiciary in the co	nstitutional developm	ent of Pakistan.	(20)
Q. No. 4.	CPEC is a flagship project of One B changer. Explain.	Belt One Road (OBOF	R) and a regional game	(20)
Q. No. 5.	Explore the significance of Shing Pakistan.	thai Cooperation Or	ganization (SCO) for	(20)
Q. No. 6.	Enumerate the measures adopted b and qualitative research in Pakistan.	y HEC for promotio	n of higher education	(20)
Q. No. 7.	Explore the option of alternative end Pakistan.		rcome energy crisis in	(20)
	How general elections in 2002, 20 Pakistan?	008 and 2013 streng	gthened democracy in	(20)

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Roll Number

ISLAMIC STUDIES						
TIME ALL PART-I(MO		: THREE HOURS MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80		
NOTE: (i) (ii) (iii) (iv) (v)	Attemp All the places. Candid	late must write Q. No. in the Arge/Space be left blank between	-II. ALL questions can n must be attempted a aswer Book in accordan	at one place instead of at different		
(vi)		attempt of any question or any p	part of the attempted qu	nestion will not be considered.		
			PART-II			
Q. No. 2.		re entitled to receive Zakat accordarify how can poverty be allev				
Q. No. 3.	Write a	comprehensive note on the righ	nt of inheritance grante	d to women by Islam. (20)		
Q. No. 4.		vere the Rightly-guided Calipment be regarded as democratic		t extent their system of (20)		
Q. No. 5.		te how the Prophet of Islam t peace maker in the world by ans?				
Q. No. 6.	-	n the concept of self-purification on society.	n in the light of the Q	pur'ān and Sunnah and its (20)		
Q. No. 7.		rate the reasons of extremism in at of Islamic teachings.	Pakistan and suggest	solutions to eradicate it in (20)		
Q. No. 8.		Ijma' (consensus) and explain i the Qur'ān and Sunnah.	ts different kinds. High	alight its importance in the (20)		
		URDU	VERSION			
ماجى	ِۃ کے س		یں کہ اِس کی تقسیم	سوال نمبر 2: قرآن ِ مجید کے با اثرات بیان کرتے ہوئے واضح کر		
		ے کم کیا جا سکتا ہے؟	ے میں عربت دو حیسے	سے اسا <i>ر</i> می معاسر <u>ہے</u> (20)		
	<u>-</u> ن	ایک تفصیلی شذره قلم بند کریا	ں کے حق وراثت پر	سوال نمبر 3: اسلام میں عورتو		
				(20)		
ے جمہوری	ں حد تک	میں آیا؟ أن كى حكومت كو كس	ا انتخاب کیسے عمل م	سوال نمبر 4: خلفائے راشدین ک		

قرار دیا جا سکتا ہے؟ سوال نمبر 5: واضح کریں کہ کیسے مشرکین اور یہود و نصاری سے مفاہمت کر کے حضور اکرم ﷺ نے دنیا کے عظیم ترین پیغمبر امن ہونے کی مثال قائم کی؟

(20)سُوالْ نمبر 6: قرآن و سُنت کی روشنی میں تزکیۂ نفس کی وضاحت کریں اور معاشرے پر اس کے اثرات کا جائزہ لیں۔ ہر ہے کے باکرہ ہیں۔ سوال نمبر 7: پاکستان میں انتہا پسندی کے اسباب کیا ہیں؟ اسلامی تعلیمات کی روشنی میں اس کے

خاتمے کا حل پیش کریں۔ (20) سوال نمبر 8: اجماع سے کیا مراد ہے؟اس کی مختلف اقسام کی وضاحت کریں۔ نیز قرآن و سُنت کی روشنی میں اس کی آہمیت و اضح کریں۔ (20) To join the career community go to www.examoo.com

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

PART-II SECTION-I

Q. 2. Bella Beauty Salon's unadjusted trial balance for the current year follows: (20)

Bella Beauty Salon		w.examoo.com
Trial Balance		
December 31		
Cash	\$ 4,200	w.E.Lamoo.com
Prepaid insurance	1,480	
Shop supplies	990	
Shop equipment	3,860	
Accumulated depreciation shop equipment		\$ 770
Building	57,500	
Accumulated depreciation-building		3,840
Land	55,000	
Unearned rent		1,600
Long-term notes payable		50,000
Bella Hanson, Capital		49,860
Rent earned		2,400
Fees earned		23,400
Wages expense	3,200	
Utilities expense	690	
Property taxes expense	600	
Interest expense	4,350	
Totals	\$131,870	\$131,870

Additional information:

- a. An insurance policy examination showed \$1,240 of expired insurance.
- b. An inventory count showed \$210 of unused shop supplies still available.
- c. Depreciation expense on shop equipment, \$350.
- d. Depreciation expense on the building, \$2,220.
- e. A beautician is behind on space rental payments, and this \$200 of accrued revenues was unrecorded at the time the trial balance was prepared.
- f. \$800 of the Unearned Rent account balance was earned by year-end.
- g. The one employee, a receptionist, works a five-day workweek at \$50 per day. The employee was paid last week but has worked four days this week for which she has not been paid.
- h. Three months' property taxes, total \$450, have accrued. This additional amount of property taxes expense has not been recorded.
- One month's interest on the note payable, \$600, has accrued but is unrecorded.

Required: Based on the above information, prepare the adjusting journal entries for Bella's Beauty Salon and adjusted trial balance for Bella's Beauty Salon.

<u>ACCOUNTANCY AND AUDITING, PAPER-I</u>

A corporation had stockholders' equity on January 1 as follows: Q. 3. (A)

(20)

Common Stock, \$10 par value, 1,500,000 shares authorized, 600,000 shares issued; Paid-in Capital in Excess of Par Value, Common Stock, \$1,000,000; Retained Earnings, \$2,500,000.

Required: Prepare journal entries to record the following transactions:

Feb. 15 The board of directors declared a 10% stock dividend to stock holders of record on March 1, to be issued on April 15. The stock was trading at \$8 per share prior to the dividend. March 30 Sold 100,000 shares of common stock for \$11 per share.

March 31 Issued the stock dividend.

Company installs a computerized manufacturing machine in its factory at the beginning of the year at a cost of \$42,300. The machine's useful life is estimated at 10 years, or 363,000 units of product, with a \$6,000 salvage value. During its second year, the machine produces 35,000 units of product.

Required: Determine the machine's second-year depreciation under the straight-line method.

Q. 4. The following financial data were taken from the annual financial statements of Smith Corporation: (20)

Details	2007	2008	2009
Current assets	\$ 450,000	\$ 400,000	\$ 500,000
Current liabilities	390,000	300,000	340,000
Sales	1,450,000	1,500,000	1,400,000
Cost of goods sold	1,180,000	1,020,000	1,120,000
Inventory	280,000	200,000	250,000
Accounts receivable	120,000	110,000	105,000

Required: (A). Based on these data, calculate the following for 2008 and 2009:

1. Working capital

2. Current ratio

3. Acid-test ratio

- 4. Accounts receivable turnover
- 5. Merchandise inventory turnover 6. Inventory turnover in days

(B). Evaluate the results of your computations in regard to the short-term liquidity of the firm.

SECTION-II

O. 5. The marketing department of Graber Corporation has submitted the following sales forecast for the (20)upcoming fiscal year.

2nd Quarter 1st Quarter 3rd Quarter 4th Quarter Budgeted unit sales. 16,000 15,000 14,000 15,000

The selling price of the company's product is \$22.00 per unit. Management expects to collect 75% of sales in the quarter in which the sales are made, 20% in the following quarter, and 5% of sales are expected to be uncollectible. The beginning balance of accounts receivable, all of which is expected to be collected in the first quarter, is \$66,000. The company expects to start the first quarter with 3,200 units in finished goods inventory. Management desires an ending finished goods inventory in each quarter equal to 20% of the next quarter's budgeted sales. The desired ending finished goods inventory for the fourth quarter is 3,400 units.

1. Prepare the company's sales budget and schedule of expected cash collections.

Prepare the company's production budget for the upcoming fiscal year.

Q. 6. Valenko Company provided the following account balances for the year ended December 31

(all raw materials are used in production as direct materials):

Manufacturing overhead applied to work in process \$340,000

Total actual manufacturing overhead costs \$350,000

Inventory balances at the beginning and end of the year were as follows:

Beginning of Year End of Year ...\$50,000 \$40,000 Raw materials .. Work in process. \$33,000 Finished goods \$30,000

The total manufacturing costs for the year were \$675,000; the cost of goods available for sale total \$720,000; the unadjusted cost of goods sold total \$665,000; and the net operating income was \$35,000. The company's over-applied or under-applied overhead is closed entirely to cost of goods sold.

Required: Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement. (Hint: Prepare the income statement and schedule of cost of goods sold first followed by the schedule of cost of goods manufactured.)

<u>ACCOUNTANCY AND AUDITING, PAPER-I</u>

Q. 7.	Linden Company manufactures and sells a single product. Cost data for the product as follows:	(20)
	VI - 11 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

Variable costs per unit:

\$6 Direct materials Direct labor 12 Variable factory overhead 4 3 Variable selling and administrative Total variable costs per unit \$25

Fixed costs per month:

Fixed manufacturing overhead \$240,000 Fixed selling and administrative 180,000 Total fixed cost per month \$420,000

The product sells for \$40 per unit. Production and sales data for May and June, the first two months of operations, are as follows:

	Units	Units
	Produced	Sold
May	30,000	26,000
June	30,000	34,000

Income statements prepared by the accounting department, using absorption costing, are presented below:

<u>May</u>	<u>June</u>
51,040,000	\$1,360,000
780,000	1,020,000
260,000	340,000
258,000	282,000
\$ 2,000	\$ 58,000
	51,040,000 780,000 260,000 258,000

Required:

- 1. Determine the unit product cost under:
 - a. Absorption costing.
 - b. Variable costing.
- 2. Prepare contribution format variable costing income statements for May and June.
- 3. Reconcile the variable costing and absorption costing net operating incomes.

The PVC Company manufactures a high-quality plastic pipe that goes through three processing Q. 8. stages prior to completion. Information on work in the first department, Cooking, is given below for May: Production data:

Pounds in process, May 1: materials 100% complete; conversion 90% complete

70,000 Pounds started into production during May 350,000 Pounds completed and transferred to the next department.

Pounds in process, May 31: materials 75% complete; conversion 25% complete

Cost data:

Work in process inventory, May 1: Materials cost \$86,000 Conversion cost \$36,000 Cost added during May:

Materials cost \$447,000 Conversion cost \$198,000

The company uses the weighted-average method.

Required:

- 1. Compute the equivalent units of production.
- Compute the costs per equivalent unit for the month.
- Determine the cost of ending work in process inventory and of the units transferred out to the next department.
- Prepare a cost reconciliation report for the month.

40,000



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, selecting AT LEAST ONE questions from EACH SECTION A, B & C. 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> <u>SECTION-A (AUDITING)</u>

- Q. No. 2. What system of Internal check would you recommend for a large manufacturing company to prevent fraud in connection with the purchase of raw material on credit basis?
- Q. No. 3. A fraud has been committed in a business. Being a Manager of Accounts you are asked by the authorities to take up investigative measures and steps to extract the fraudulent matter. Discuss the measures and steps you will take in this regard.
- **Q. No. 4.** What is meant by Auditor's Report? Describe the key characteristics of a good audit report, along with the significance of Auditor's report to show the transparent picture of the company.

SECTION-B (BUSINESS TAXATION)

- Q. No. 5. (A) Define the concept of sales tax & describe the sales tax act of 1990. (20) Identify the official positions of Inland revenue officers and their powers.
 - (B) Mr. Sartaj is registered under the Sales Tax Act, 1990 as a manufacturer as well as a commercial importer. He has provided you the following information for the month of February, 2016:

www.czamoo.com www.czamoo.com www.czamoo.com	Rs. in Million
Export sales – manufactured goods	35
Local sales of exempt manufactured goods	25
Taxable supplies – manufactured goods	130
Taxable supplies – commercial imports	70
Purchases	www.cxamoo.com w
 Local purchases of raw material from: 	www.rxxmoo.com w
Registered person	180
Unregistered persons	60
Commercial imports	50

All the above amounts are exclusive of sales tax. Commercial imports have been stated at C&F value and are subjected to customs duty at the rate of 10%. There was no stock of commercial imports at the beginning or end of the month.

Required:

Compute the sales tax liability of Mr. Sartaj along with input tax to be carried forward (if any) in his sales tax return for the month of February 2016. (**Ignore the effect of minimum value addition in case of commercial imports**)

<u>ACCOUNTANCY AND AUDITING, PAPER-II</u>

Q. No. 6. (A) Identify the main features of Income Tax ordinance 2001. Also discuss the (20)exemptions and tax concessions available to a taxpayer under that ordinance.

> **(B)** Mr. Ahmed is an employee of a company. He has submitted the following

information for the tax year 2016.

Ţ.	Rs.
Basic Salary per annum	340,000
Bonus	56,000
Cost of living allowance	66,000
Dearness allowance	32,000
Rent free unfurnished accommodation – annual value	162,000
Company maintained car for personal and official use, cost of vehicle is.	980,000
Utility allowance	58,000
Leave encashment	31,600
Leave Fare Assistance provided every year	22,600
Hotel bills paid by the company relating to a pleasure trip	28,400
Employee's contribution towards provident fund	30,000
Zakat paid under Zakat and Ushr Ordinance	15,000
Tax deducted by the company for salary	35,000

Required: Compute the total income, taxable income and tax liability of Mr. Ahmed.

SECTION-C (BUSINESS STUDIES & FINANCE)

Identify the major barriers that hamper global business in an open Q. No. 7. (A) economy.

> Consider a coupon bond that has a face value of \$1000, has a yield of 16%, **(B)** pays a semi annual coupon of 70, and matures in one year 'assuming that the bond will pay the face value amount that the cost coupon payment on the maturity date. Calculate the price of the bond.

Q. No. 8. (A) Describe the economic systems, also Identify which system is more beneficial for the economic development of the country.

> **(B)** XYZ company presently pays a dividend of \$ 1.50 per share on its common stock. The company expects to increase the dividend at a 20% annual rate the first four years and at the rate of 13% at the next four years then the growth on the dividend at a 7% thereafter. This phased growth patterns is in keeping with the expected life cycle of earnings. You are required a 16% return to invest in this stock. What value should you place on a share of this Stock?

> > **********



Roll Number

AGRICULTURE & FORESTRY

TIME AL PART-I(M		: THREE HOURS MAXIMUM 30 MINUT	ΓES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
NOTE: (i) (ii) (iv) (v)	SECT i) All the places. c) Candid	late must write Q. No. in the ge/Space be left blank between the between the blank blank between the blank b	ns from EQUATE IN EQUATE I	om PART-II by selecting UAL marks. In must be attempted at conserved swer Book in accordance	one place instead of at of with Q. No. in the Q.Pa	lifferent
(vi)	Extra	attempt of any question or	any p	art of the attempted ques	tion will not be consider	ed.
			S	PART-II ECTION-I		
Q. No. 2.	pollution results in	s driving force for agricultu . What are alternate source a comparable level of farm of fic advancement and econom	es whi	ch can be manipulated to	earn carbon credit and	(20)
Q. No. 3.	its efficie What tec national	established fact that irrigation on tuse is imperative in terms thological advancements and and provincial levels have mental and economical issues	of wa d up-g impa	nter scarcity in semi-arid an gradations Government Inst rted in farm water mana	d arid zones of Pakistan. itutions/Organizations at gement? Also elaborate	(20)
Q. No. 4.	for these keeping	e prospects of biofuels crops e crops to compromise with in view small holdings as so els production, claiming that	cerea	l and vegetable crops, econding corporations have cal	onomically and socially,	(20)
Q. No. 5.	shift affe infrastruc the huma	mography in Pakistan is in tect gender discrimination are cture and rural livelihood? Communication in the control of the communication of the communication in the communication of the communication	nd par Can pre ne dec	rity in rural societies towa esent educational investment ision making and developm	ards farm income, rural art in rural areas improve	(20)
			SEC	CTION-II		
Q. No. 6.	participal role and plantation	ons for the Sustainable For tory roles of human populat how can policies be amendans? Also elaborate preference surate purposes of ethanobota	ed to	low far present forest police prioritize people involvement toology over traditional toology over traditional toology.	cies have prevented this ent in raising forest and tional forest breeding to	(20)
Q. No. 7.	Pakistan.	in detail constraints in new What are reasons for degration of the range policy in the	radatio	on of old rangelands? Also		(20)
Q. No. 8.	(a) Sili (b) For (c) Zer (d) Eco (e) Imp	nort notes on any Four of the vopastoral planning rest and climate change; prepro waste agriculture onomic and social impacts of provement in animal husband safety regulations in Pakistar	paredno f land : dry pra	ess and strategies in Pakista		(20)
		www.ciamoo.com www.ci	*>	*****		

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Roll Number

1100

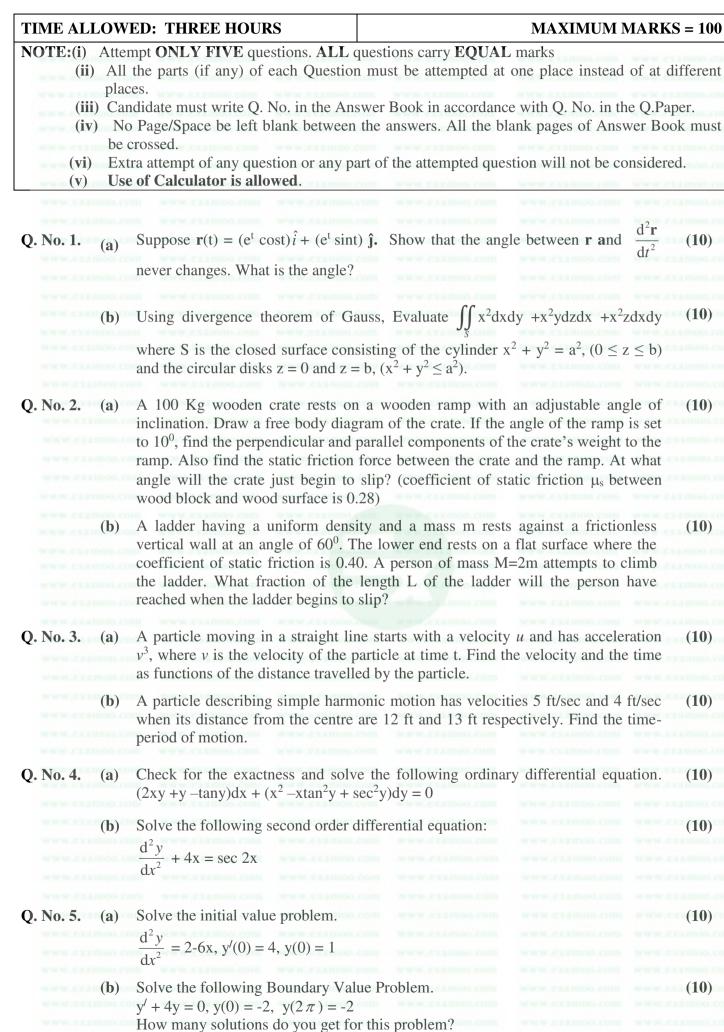
ANTHROPOLOGY

TIME ALZ PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MI	INUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(iii	Attempt ONLY FOUR questil All the parts (if any) of eac places. Candidate must write Q. No. No Page/Space be left bland be crossed.	stions from th Question in the Ans k between on or any pa	a PART-II. ALL question must be attempted at a swer Book in accordance the answers. All the blackert of the attempted questions.	one place instead of at dewith Q. No. in the Q.Papank pages of Answer Book	per. ok must
O No 2	How paraparties of Anthrop	-casinoo.	ART-II	shal tranda lika alahal	(20)
Q. No. 2.	How perspective of Anthrop warming and erosion of bio-d		in be used to study give	obai trends like globai	(20)
Q. No. 3.	How applied anthropology ca contemporary world?	an be utiliz	zed to solve the problem	s faced by humanity in	(20)
Q. No. 4.	Write a detailed account o substantiate your answer?	of gift exc	change. Give samples	from everyday life to	(20)
Q. No. 5.	Define "animism" and state Tylor.	the evolu	tionary scheme of relig	ion provided by E. B.	(20)
Q. No. 6.	What is incest taboo? Explain	different	theories about incest tabe	00.	(20)
Q. No. 7.	Is this poverty which is the re	eal cause o	f overpopulation or it is	the population pressure	(20)
	that is responsible for incre	easing pov	erty? Substantiate your	argument by quoting	
	relevant facts and figures.				
Q. No. 8.	Write short notes on any FOU	UR of the f	following:	(5 each)	(20)
	(a) Soro	ral Polygy	ny & Sororate		
		rilocal resi	dence & Virilocal Resid	ence	
	(c) Phrat	try & Moie	ety		
	(d) Rese	earch tools	& Research Method		
	(e) Palae	eolithic Cu	lture		
	(I) Euille	ography			
		***	*****		



Roll Number

APPLIED MATHEMATICS



APPLIED MATHEMATICS

- Q. No. 6. Compute the Fourier series for the function x^2 on the interval $0 \le x \le L$, using as a (10)basis of function with boundary conditions u'(0) = 0 and u'(L) = 0. Sketch the partial sums of the series for 1, 2, 3 terms.

 - Find a solution to the following partial differential equation that will also satisfy (10)the boundary conditions.

$$\frac{\partial u}{\partial t} = k \frac{\partial^2 u}{\partial x^2}$$
, $u(x,0) = f(x)$, $u(0,t) = 0$, $u(L,t) = 0$

- **Q. No. 7.** (a) Use bisection and false position methods to locate the root of $f(x) = x^{10}$ -1, (10) between 0 and 1.3. Which of the two methods is better and why?
 - (b) Use Lagrange interpolation polynomial of the first and second order to evaluate (10) f(x) at x=15 for the following data;

x: 0 20 f(x): 3.850 0.800 0.212

Q. No. 8. (a) Use Trapezoidal Rule with 3 segments to evaluate.

 $\int_{0}^{0.8} x \cdot e^{2 \cdot x} dx$

Also find the true solution and the percentage error.

(b) Consider the function $f(x) = xe^x$. Obtain approximations to f'(2) with h = 0.5 (10) using forward, backward and central difference formulas.



Roll Number

Service Control of the Control of th	Al	RABIC	www.cximoo.com ww	W.CLEINGO.COM
TIME ALLOWED PART-I(MCQS):	: THREE HOURS MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MAI MAXIMUM MAI	
(ii) Attem langua	II is to be attempted on the separ pt ONLY FOUR questions from age. ALL questions carry EQUA e parts (if any) of each Question	n PART-II. Answers m L marks.	www.cxamoo.com ww	w.cxamoo.com
(iv) Candid (v) No Pa be cro	date must write Q. No. in the Ange/Space be left blank between essed. attempt of any question or any p	art of the attempted que	ank pages of Answer	Book must
وظ. (20)	www.czzmoo.com www.czzmoo.	PART-II ية العربية؟ ناقش الموضوع مع	كيف بدأت وتطورت الروا	السوال 2.
(20)	قرآنية.	نحته ذاكراً الأمثلة من الآيات ال	ناقش فصاحة القرآن وبلاء	السوال 3-
(20)	كيز الخاص على المعلقات السبع.	الشعر الجاهلي ومزاياه مع الترّ	أكتب مقالأ على أغراض	السوال 4
(20)	ف بأهم النقاد للشعر في هذا العصر-	العرب في العصر الجاهلي، عرّ	كيف تطور فن النقد عند	السوال 5-

(20)	بة العربية.	عرّف بالجملة الإسمية والجملة الفعلية ووضح الفرق بينهما بالأمثلة من اللغة	السوال 6-
(20)		اشرح الأبيات التالية ووضّح لمن هذه الأبيات وما غرضها:	السوال 7-
		ولد الهدى فالكائنات ضياء وفم الزمان تبسمٌ وثناء	
		الروح والملأ الملائك حوله للدين والدنيا به بشراء	
		والعرش يزهو، والحظيرة تزدهي والمنتهي، والسدرة العصماء	
		وحديقة الفرقان ضاحكة الربا بالترجمان، شذية، غناء	

السوال 8- أكتب شذرة مختصرة على الموضوعات التالية:

i. فن النقائض في العصر الأموي.
ii. فن الموشحات في الأندلس الإسلامي.

iii. الغزل الصريح والغزل العذري.

iv. أسواق العرب في العصر الجاهلي



Roll Number

BOTANY

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 Question places.Candidate must write Q. No. in the Ans.	n PART-II. ALL questing must be attempted at swer Book in accordance the answers. All the block in the block	one place instead of at one with Q. No. in the Q.Palank pages of Answer Book	lifferent per. ok must
(1-)	com www.clamor.com www.clamor.co	ART-II	WWW.CESMOO.COM WWW.	CTAMOO.
Q. No. 2.	Describe briefly habitat, structure, repro	duction and life cycle of	f adiantum.	(20)
Q. No. 3.	Discuss evolution of seed and its import	ance in vascular plants.		(20)
Q. No. 4.	Why is Darwin's theory of evolution sti	ll so controversial? Exp	lain.	(20)
Q. No. 5.	How does the C ₄ pathway differ from advantages and disadvantage of each pa		fixation? What are the	(20)
Q. No. 6.	How did the discovery that the DNA malead Watson and crick to propose the pa			(20)
Q. No. 7.	Describe causes and reclamation of soil	salinity and water logg	ing in Pakistan.	(20)
Q. No. 8.	Writer short notes on any FOUR of the state (a) Forensic Palynology. (b) Chemo taxonomy. (c) Imperfect Fungi. (d) Choromosomal aberrations. (e) Economic importance of Acacia		(5 each)	(20)

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Roll Number

BRITISH HISTORY

TIME AL PART-I(N	LOWED: THREE HOURS MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
	 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 Anthropy No Page/Space be left blank between be crossed. 	om PART-II by selecting UAL marks. In must be attempted at swer Book in accordance the answers. All the bloom in the answers is the answers in the selection i	one place instead of at diff ee with Q. No. in the Q.Paper lank pages of Answer Book	Gerent
WW.CXXIIIOO WW.CXXIIIOO WW.CXXIIIOO	Noom www.exxmoo.com www.exxmoo.p	ART-II CTION-I	WWW.CIIMOO.COM WWW.CII	11100.C0
Q.No.2.	What were the merits and demerits o Whig ascendancy? Analyze comprehenses		t led to the downfall of	(20)
Q.No.3.	Industrial Revolution drastically ch How did it affect the Social, Econon people?		9	(20
Q.No.4.	Give a comprehensive account of cland Analyse.	hartist movement. W	hy did it fail? Explain	(20
Q.No.5.	"Gladstone's domestic policy was comprehensively.	s the climax of li	beralism". Discuss it	(20
	SEC	CTION-II		
Q.No.6.	Explain the Eastern Question and towards this question from 1820 to 1		e attitude of England	(20)
Q.No.7.	What do you understand by Britis developed? How does it differ from the			(20)
Q.No.8.	What are the advantages and disad with arguments.	Ivantages of Brexist	for England? Analyse	(20)
	***	*****		

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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

Part-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
- (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.
- Extra attempt of any question or any part of the attempted question will not be considered.
- (vii) Use of Calculator is allowed.

PART-II

- What does a company need to do to achieve strategic fit between the supply chain and Q. No. 2. (20)competitive strategies?
- Describe how marketing strategies change during product life cycle. Also indentify and Q. No. 3. (20)discuss some potential problems with the product life cycle.
- There are several basic techniques managers use for appraising the performance of Q. No. 4. (20)employees. Discuss these techniques.
- A manager who really wants to approach a decision rationally and logically should try to Q. No. 5. follow the steps in rational decision making. Discuss these steps with examples.
- (a) A successful strategy requires determining the firm's Critical Success Factors (10) Q. No. 6. (CSF) and core competencies. Discuss how a manager of pharmaceutical firm can align core competencies with CSF.
 - (b) How an operation manager can manage demand of a product in the light of available capacity?

Q	. No. 7	. The	following	data re	lates to	ABC	Company
---	---------	-------	-----------	---------	----------	-----	---------

(20)**Income statement**

Sales	WWW.CAARBOO.COM	Rs. 500,000
Cost of goods sold		300,000
Operating expenses		60,000
Interest expenses		10,000
Income tax expenses		40,000
Net income		90,000
	Balance sheet	

Assets	
Cash	Rs 10.000
Accounts receivable	15 000
Inventory	20,000
Equipment	455,000

Total: 500,000

Liabilities	
Accounts payable	Rs 12,000
Long-term notes payable	48,000
Shareholder's equity:	
Capital stock	300,000
Retained earnings	140,000
Total:	500,000

Find and interpret the company's

- (i) Current ratio Quick ratio (ii) (iii) Average collection period
- (iv) Time interest earned Inventory turn over (**v**)
- Q. No. 8. Discuss the three common capital budgeting decision techniques with examples and formulas

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION - 2017 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.

www.examoo.com	PART- II	
(20)	جبل ءِ دائلين سرحالان چه يکيءِ سرانيشتا تکي نويس اِت-	ال نبر2:
	(i) بلوچستانءَ مزن سندین (بو نیورشیءٔ کالج) وانگءُ زانگ ءِ جادرحال۔ (ii) چائند پاکستان اکنا مک کوریڈ ورءِ بلوچ دود مانءَ زبان ءِسرا کپوکیس اثرات۔ (iii) بلوچستانءَ آٹار ءقدیمہءِ جاورحال۔	
(20)	جہلءَ واَتَكْمِيں شاعراں چِه كِيجَ ءِزندءَازم (فن) ءِسراسرجىءَ نوليس اِت _) _ميرگل خان نصير _	ال نمبر3: (i
(20)	بلویتی زبان غلبز ایک ء طنز ءِمزاح ءِ بندات ءُ دیمر وی ءَشاچون گندات؟ بحث کن ات۔	ال ثمبر4:
(20)	جہلءَ دائلیں دود مانی گالیندانی معتام ل کشین ٹل اِت۔ لڑءَ بار _متا گی _سرگشت _گام بُڑی _سرگوپ _ بردست (پُٹخ) _ چم بند _رَکت _ ہم شیرک _ جالار _	ال تمبر5:
(20)	میراحمد پارخان ءِاصلاحی کارغ کر دانی سراه جمشا کئے بیددئیت۔	ال نمبر6:
(20)	کارینا جہانی ء کتاب ''اسٹنڈ رائیزیشن اینڈ آرتھوگرافی اِن دی بلو چی لینگو یج'' ء سراسر جمیں چمشا کے بیدئیت۔	ال نمبر7:
پدانی آ دیک عِمَس اِنت۔ پیغام ءَ که ڈرامہ دات کت ،	جہل ءِ واَتَّكَيْس بلوچی فیکسٹ آں چہ ماں انگریزیءَ رجا تک بکن اِت۔ ڈرامہ بنی آ دم ءِ راشیں کرد (شرۂ حراب)ءِ بیش دارگءِ تام انت، بزال ڈرامہ چاگر دۂ ساخ وَشَر ءُیشر یں کارۂ کار لبزا تکء ڈرامہء مزنیں ارزشت ءُ اِستارے اِست انت ۔ انچیکش انت کہ آ اثر ءُ ڈرامہ ودی کرت کنت ، آ کلوہ ءَ	
کرت کدلیز ا تک _ع وتباوت جنّا کمیر	لبز ا نک ءِدوی تنبر ءُ ببر آ درجہ ءُ حدءُ سر پوت نہ کن انت۔ ڈرامہ کہ بلوچی ءَایشرا'' کسما تک'' کش انت بندات ءَشاعری ءِ ببرے بوتگ بلئے رندااے تبرءَ جمینکس دیمروی	
(20)	تبرے (صنف) منگءُ ہے کنگ بوت۔ لءِ وانتھیں انگریزی فیکسٹ آل چہاں بلوچیءَ رجا تک یکن اِت۔ (10)	

Economic growth and development means an increase in production of goods and services and an increase in well being of the people. The Economic development of an area is dependent on four main factors, namely natural resources, human capital, physical capital and technology. Given endowment of natural resources, economic growth takes place when improvements in human Capital i.e. education, training and skills, improvements in investment in economic infrastructure and improvements in technology To join the career community go to www.examoo.com take place.

FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION-2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

SINDHI

TIME ALLOWED:

PART-II

30 MINUTES 2 Hours and 30 Minutes MAXIMUM MARKS = 20 MAXIMUM MARKS = 80

PART-II

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

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

سوال نمبر2- لوك ادب ڇآكي ٿو چئجي! ڊاڪٽر عبداكريم سنديلي جون لوك ادب ۾ كيل خدمتن جو جائزو پيش كريو؟

موال نمبر3۔ مرزا قليچ بيگ کي ''سنڌي ادب جو ابو'' چيو وڃي ٿو .سندس ڪيل ادبي خدمتن تي روشني وجهو؟

سوال نبر 4- الطاف شيخ جي سفرنامن تي تفصيلي نوت لكو. (20)

سُوال نُمِر5- ''آغا سليم هڪ محقق، افسانہ نگار، ناول نويس، مترجم ۽ شاھ لطيف جو پارکو اديب هو''، انهي ُلا جي روشني ۽ ۾ تنقيدي جائزو پيش ڪريو. (20)

سوال نمبر6۔ سنڌي ناول ۾ فني سٽاء جي لحاظ کان ڪهڙي جدت آئي آهي. واضح ڪريو؟ (20)

سوال نمبر7- سنڌي ٻولي جي بڻ بنياد ۽ لهجن تي تفصيلي نوٽ لکو- (20)

(B) Translate following paragraph in Sindhi.

(10)

Shah Abdul Latif Bhatai is generally known as a mystic, spritual and pantheistic poet: however, his poetry highlights several other aspects: for instance, romanticism, aestheticism, retionalisiTo jointhedacer, community goal who examinates



Roll Number

(6)

		<u>CHEMIS</u>	TRY PAPER-I		
			PART-I (MCQS) PART-II		
PART-I(MCQS): MAXIMUM 30 MINUTES PART-II MAXIMUM MARKS = 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 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. (vii) Use of Calculator is allowed. PART-II Q. No. 2. (a) Derive Schrodinger wave equation for motion of a particle in one dimensional (1 box. (b) Solve Schrodinger wave equation to find the expression for wave function energy of a particle in one dimensional box. (c) What is Eigen function and Eigen value? Give examples. (a) Q. No. 3. (a) Define heat capacities and molar heat capacities. Prove that C _p -C _v =R for ideal (1 gases. (b) What is Gibbs energy? Derive a relation between standard Gibbs energy change	different aper.				
\ /) Ext	ra attempt of any question or any p e of Calculator is allowed.	com www.ciamoo.com	stion will not be consider	ed.
Q. No. 2.	(a)	Derive Schrodinger wave equation	COM WWW.EXAMOO.COM	cle in one dimensional	(10)
	(b)	Solve Schrodinger wave equation		on for wave function	(6)
	(c)	What is Eigen function and Eigen	value? Give examples.		(4)
Q. No. 3.	(a)	MI WWW.CAAIDOG.COM WWW.CAAIDOO	heat capacities. Prove	that C_p - C_v = R for ideal	(10)
	(b)		elation between standar	d Gibbs energy change	(6)
	(c)	Differentiate spontaneous and non	spontaneous process.		(4)
O N. 4	(.)	Ct-t11-11-11-11-1	C: it1iti		(10)

Q. No. 4.	(a) (b)	State and explain Kohlrausch's law. Give its applications. What is meant by standard deviation? Give its significance in analytical chemistry.	(10) (6)
	(c)	Briefly describe conductometric titrations.	(4)
Q. No. 5.	(a)	Discuss the effect of temperature on rate of chemical reaction on the basis of Arrhenius equation. How can you determine activation energy and pre-exponential factor for a chemical reaction using Arrhenius equation?	(10)
	(b)	Derive kinetic equation for 1 st order reaction.	(6)
	(c)	Prove that half life period for 1 st order reaction is independent of initial concentration of reactant.	(4)
Q. No. 6.	(a)	What is adsorption isotherm? Derive Langmuir adsorption isotherm for adsorption of a gas on solid surface.	(10)
	(b)	What is enzyme catalysis? Discuss its kinetics.	(6)
	(c)	What are surfactants? Give their properties.	(4)

	What is enzyme catalysis? Discuss its kinetics. What are surfactants? Give their properties.		(6) (4)
Q. No. 7. (a)	What is electrophoresis? Give its principle and disc biochemistry.	uss its applicatio	ns in (10)
	Give six chemical properties of nitrogen. What is Common ions effect? Give its applications.		(6) (4)
Q. No. 8. (a)	State John-Teller theorem. Explain it using suitable exam complexes.	ples from coordina	ation (10)

(b) Give postulates of Werner's theory of coordination complexes. (c) Briefly describe nuclear decay rate law for disintegration of radioactive elements. (4)



Roll Number

CHEMISTRY 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. 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. Write brief notes on the following
 - (i) Covalent Bond (ii)
 - (ii) Hybridization
- (iii) Isomerism

- (iv) Monosaccharides
- (v) Triglycerides(viii) Chemical Shift
- (vi) Electronegativity(ix) Stereoselectivity

(2 each)

(20)

(vii) The Inductive Effect(x) Fertilizers

(iv)

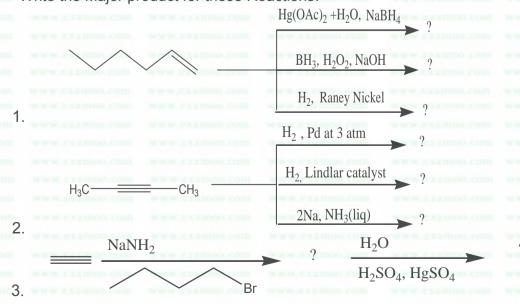
Q. No. 3. (a) Give the method of synthesis of the following compounds from an (12) appropriate alkene of your choice with reagents.

(b) Write the Major product for these Reactions.

(v)

OH

(8)



OH

Page 1 of 3

CHEMISTRY PAPER-II

- Q. No. 4. (a) What is aromaticity? Explain the Hückel criteria for aromaticity.
 - (b) Write names of the following compounds. (4)
 - COEt CHO OCCH₃

 Ph

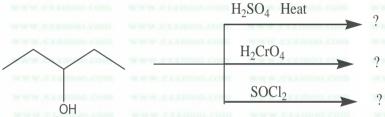
 NH₂

 OMe

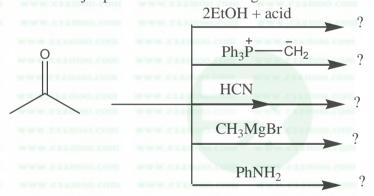
 NO₂
 - (c) Write the reaction and mechanism of Friedel Craft alkylation and acylation (10) reaction.

C

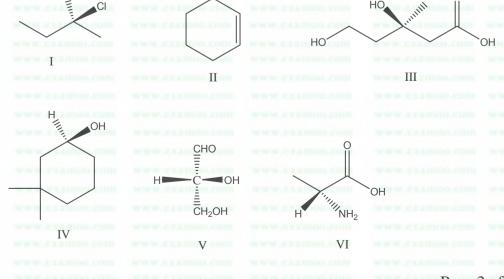
- Q. No. 5. (a) What is Grignard reagent? What are its applications? How would you prepare (8) Grignard reagent starting from an alkyl halide of your choice.
 - (b) Give the Product of the following reactions: (3)



- (c) Give the IUPAC nomenclature of Aldehydes and Ketones. (4)
- (d) Give the major products of the following reactions. (5)



- Q. No. 6. (a) What is stereoisomerism? Give an account of different types of stereoisomerism. (5)
 - (b) Assign an R or S configuration to the chiral center in each molecule. (9)

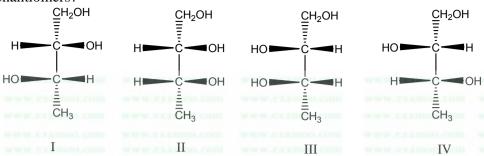


Page 2 of 3

(6)

CHEMISTRY PAPER-II

(c) In the following molecules identify that which are diastereomers and which are enantiomers? (6)



- Q. No. 7. (a) What is the difference between Dispersive IR Spectrometer and Fourier (5) Transform (FT)-IR Spectrometer.
 - (b) Differentiate the following on the basis of IR.

$$CH_{3}(CH2)_{7}$$
 O $(CH_{2})_{7}$ O C

(c) Differentiate the following pairs of compounds on the basis of UV. (8)

(d) Deduce the structure of the product of the given reaction from the following data. (4)

The product has

IR: Four strong bands that appear in the range of 1200 to 1020 cm⁻¹

NMR: 3 Proton triplet at 0.8ppm, 3 Proton singlet at 1.3ppm, 2 proton quartet at 1.8ppm and 4 proton multiplet at 4.0ppm

- Q. No. 8. Write notes on any FOUR of the following: (5 each)
 - (a) Reactions of Monosaccharides
 - (b) Biosynthesis of Cholesterol
 - (c) Primary structure of Polypeptides and Protein.
 - (d) Prostaglandins
 - (e) Synthesis of Peptides



Roll Number

COMPARATIVE STUDY OF MAJOR RELIGIONS (FOR NON MUSLIMS)

TIME ALLO PART-I(MO		THREE HOU MAXIMUM 3		PART-I (MCQS) PART-II	MAXIMUM MARKS MAXIMUM MARKS	
				rate Answer Book.	WAXIWUW WAKKS	- 00
				-II. ALL questions car	ry EQUAL marks.	moo.com
(iii)		parts (if any) of	of each Question	on must be attempted a	t one place instead of at dif	ferent
(iv)	places.	ete must write (No in the Ar	navyar Paalz in aaaardan	ace with Q. No. in the Q.Papo	240
			_		lank pages of Answer Book	
	be cros		n	(COID	The purpose of This wor 2 out	111000
(vi)	Extra a	ttempt of any q	uestion or any j	part of the attempted qu	estion will not be considered	moo en
				PART-II		
		n comprehensiv		ndu Puranas, types ai	nd numbers. Explain its	(20)
Q. No. 3.		comprehensives of Jewish Ph			sm in the light of basic	(20)
•		ducates tolerand graphy of Proph			ght of Quran and Sunnah	(20)
		ethical system porary situation		ldha to his followers?	Write a comprehensive	(20)
		oinism movement cepts of Jewish			on its history and explain	(20)
Q. No. 7.	Write ar beliefs.	ı introductory n	ote on Catholic	and Protestant. Also co	ompare their concepts and	(20)
				e of Hazrat Umar (R.A beneficial in current age	A) and also explain how e?	(20)
			URDI	U VERSION		
ہوئے بتائیں	ح کرتے	ر تعداد واضح	ً انكى اقسام او	، نوٹ تحریر کریں۔ نیز	بر 2: ہندو پُرانوں پر جامع	وال نم
www.c.i.im	оо.ент	www.examoo.com	www.csamoo		کے لٹریچر میں انکی کیا آب	
و دیت کی	ں میں یہ	بول کے روشنے	ده عقائد و اص	`	ر 3: يہودى فلسفى موسى	_
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1 9	_ ق آن	نح تعلید دیتا یا	اداری کی و او	. ,	۔ بر4: اسلام دیگر مذاہب کے	
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ع و سنت اور					لیبہ کی روستی میں وصف	
	-5	الا نان الله الله الله الله الله الله ال	کا کرا نظام در		ر 5. گوته رئم زیان	بالبنما
	کے عص	ا؟ نيز بُده مت	کا کیا نظام دی	روكاروں كو أخلاقيات	بر5: گوتم بدُھ نے اپنے پیر اثرادت سے اور نے اللہ ایک ایک ا	
س حاضر می				روكاروں كو أخلاقيات ن- (20)	اشاعت پر جامع نوٹ لکھیر	وال و
ىر حاضر مى			ی؟ اسکی تاری	روكاروں كو أخلاقيات ن- (20) كيونكر وجود ميں آئ	اشاعت پر جامع نوٹ لکھیں بر 6: صہیونیت کی تحریک	وال و رال نم
س حاضر میں ہیں۔ نیز اصلا	وٹ لکھ	خ پر مختصر ن	ی؟ اسکی تاری)	روكاروں كو أخلاقيات ن- (20) كيونكر وجود ميں آئ ن زير بحث لائيں۔ (20)	اشاعت پر جامع نوٹ لکھیر	وال و رال نمر تہ یہو

تقابل پیش کریں۔ سوال نمبر 8: حضرت عمر فاروق کے زرین عہد کے احوال و اصلاحات بیان کرتے ہوئے واضح کریں

کہ عصر حاضر میں کس طرح فاروقی عہد کی اصلاحات سے استفادہ کیا جا سکتا ہے۔ (20)

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Roll Number

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.
- (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

- Q. 2. (a) The internet era has given rise to the problem of cybercrimes. Given the need to maintain privacy which is an ethical responsibility of the government, what technical means would you suggest to curb this problem?
 - (b) Describe the difference between Harvard and Von-Neumann architectures of computers.

 Also discuss their traits in the light of their capabilities. (6)
 - (c) Virtual memory is used by the computer to support the running of heavy applications.

 Describe the functioning of virtual memory in the computer. Also comment on the management of virtual and physical memory by an operating system.
- Q. 3. (a) Three types of languages exist for use in programming of computers, Machine, Low Level and High Level languages. Elucidate on these three types, giving details of the conversion process between Low Level and High Level language into Machine language.
 - (b) Write a function that calculates the quadratic equation in $x = \frac{-b \pm \sqrt{b^2 4ac}}{2a}$. You may use the math library for this purpose. The program should ask the user to enter values of a, b and c and should print the result. A sample execution of the program is shown below: Enter value of a: 1

Enter value of b: 2 Enter value of c: 1 The values of x are -1, -1

(c) Consider that you are required to create a program for a supermarket checkout machine. The machine has a database of the items available in the supermarket which consists of the items name, code and price. Make a program that requires the cashier (user) to enter the code or name of the product and the quantity that has been bought. It should allow for multiple entries to be made. Once all the entries have been made. The program prints the total amount to be charged on the screen. A sample execution is shown below:

Enter product name or code: 1

Enter quantity: 1

Do you have more products to add (Y/N): N

The total amount is 500

You may construct the database as a structure.

- Q.4. (a) What factors should be considered when choosing particularly between evolutionary and incremental models? Elucidate the characteristics of Rapid Application Development, Joint Application Development and Agile Software Engineering.
 - (b) Differentiate between Software Validation and Verification. Discuss some of the techniques used for empirical software evaluation. (6)
 - (c) Discuss the importance of Requirements Engineering in the success of a software project. Explain in detail the process of 'Requirements Sign-off'.

Page 1 of 2

COMPUTER SCIENCE, PAPER-I

Q. 5.	(a)		nd build a Red-black a binary tree be suital		ng keys (50, 60, 70, 8 of these keys?	0, 90) and (50, 40, 3	0, 20, 10).	(8)
	(b)		oles enable for fast in with a suitable examp		g within the database	e. Describe the proce	ess of	(6)
	(c)		e the process of Bu orithm for sorting the		te down the output $(5, 1, 10)$.	after each pass of	the Bubble	(6)
				SEC	ΓΙΟΝ-ΙΙ			
Q. 6.	(a)	Bang,	Code and Fix, W	ater Fall and the	n have multiple a Spiral Model. Co cation while foll	nsider a test appli	cation and	(8)
	(b)		s the design issues ering tasks.	of Task Partitioni	ng and Task Alloc	ation in Distribute	d Software	(6)
	(c)				ander the umbrella of different methodo		esign and	(6)
Q. 7.	(a)		ndling of syntax er	rors involves the u	use of parser and the	ne lexical analyzer.	Comment	(8)
	(b)	Using a based co	-	, compare the op	eration of a top-do	own and a bottom	-up Parser	(6)
	(c)	-	the two differentle optimization by		de optimization the example.	at is Loop optimi	zation and	(6)
Q. 8.	Wr	ite short i	notes on any FOUF	R of the following:			(5 each)	(20)
	(a)	Global,	Local and shared	variables for nestee	d function access			
			ing IP rights in the					
			www.exameo.com	www.examon.com				
	(c)		processing and th	WWW.EARTHAND.COM	and a second second			
	(d)	Resourc	ce allocation during	g runtime processe	S			
	(e)	Interme	diate Code Genera	tion				
	(f)	Searchin	ng Algorithms					
				**	*****			

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Page 2 of 2



Roll Number

COMPUTER SCIENCE, PAPER-II

TIME ALLOWEI PART-I(MCQS):	D: THREE HOURS MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =	
(ii) Attem EAC	II is to be attempted on the separate of the separate of the sections of the section of the separate of the section of the sec	from PART-II by s ry EQUAL marks.	WWW.CXIMIOO.COM WWW.CIAM	000.000
(v) No P	idate must write Q. No. in the Anage/Space be left blank between ossed.	the answers. All the bl	ank pages of Answer Book	must
(vi) Extra	attempt of any question or any p	com www.caamioo.com	estion will not be considered.	noo con
	<u>S</u>	<u>PART-II</u> ECTION-A		
Q. 2. (a) Discuss	s the following methods of storag (i) Direct Access	e systems: (ii) Random Access		(8)
	k speed reaches its maximum nance of a computer? Briefly exp		methods to increase the	(6)
(c) Draw a	nd explain instruction execution	state diagram with inter	rupt.	(6)
Q. 3. (a) Explain	n the following network protocols	ion www.czamoo.com		(8)
	(i) HTTP and SIP	(ii) TCP and UDP		
	s the transmission time of a pack bytes and the bandwidth of the c		e length of the packet is 1	(6)
	the IP address 10.5.118.3 and able IP addresses and broadcast in		5.255.240.0, what are the	(6)
Q. 4. (a) What a Policie	are differences between Optimal as?	& LRU (Least Recently	Used) page Replacement	(8)
	s the four necessary conditions for econditions?	or deadlock to occur. H	How can we deny any two	(6)
turnaround	der three processes given in the (completion) time when these using time quantum (TQ) = 4.	9	2	(6)
	Process	CPU Burst	www.mamoo.com www.man	
	P1	24	www.fizimoo.com www.fizi	
	P2	7	www.ramoo.com www.ram	
	P3	10	**************************************	
(i) (ii)	n the functionality and purposes of Memory Address Register (MAR Memory Buffer Register (MBR) Instruction Register (IR)		th diagrams:	(8)
(b) Discus	ss the functionality of Ethernet La	AN and its types.		(6)
	nappens in the following cases? If the job size is kept very low in	time sharing systems.		(6)

(ii) If the page size is kept very small in paged memory management.

SECTION-B

Q. 6.	(a)	What	is Normalization?	Disc	cuss INF, 2NF	and 3NI	r with exai	mple(s).		(8)
	(b)	Write (i)	short notes on the Data	follo (ii)	owing: Database	(iii)	Database	Management Syst	em	(6)
	(c)	Differ	entiate between C	entra	lized Database	e and Dis	stributed D	atabase.		(6)
Q. 7.	(a)		image histogram			by hist	togram eq	ualization? Explai	n their	
	(b)		ne storage in bytes with 24 bit color of	-		a 256 x 2	200 colore	d image using RG	B color	(6)
	(c)	Briefly	explain Geometr	ic Tr	ansformations	WWW.C1				(6)
Q. 8.	(a)	Explai	n the following we	eb co	ncepts:					(8)
			(i) localStor	age a	and sessionSto	rage obje	ects			
					ache in HTML		атано.com			
			www.csamoo.com							
			(iii) Manifest	file						
			(iv) Web Wo	rker						
										(6)
	(b)	What i	s SVG? What are	the a	dvantages of S	SVG ove	r JPEG or	GIF?		(0)
	(c)	Explai	n Non Breaking sp	nace	in HTML with	exampl	e			(6)
	(0)	Lapiun	ir ron Breaking of	Jucc	III IIIIVILD WIG	гелипрі				
					w.examoo.com		amiio cum			
					*****	*****	**			
									www.cxxII	
			To joi		career communit		ww.examoo.c	com		2 of 2
			10.							



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2017

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

Roll Number

CONSTITUTIONAL 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

- Q. No. 2. Discuss the sources of the Indian Constitution. "Indian Constitution is a bag of borrowings." Discuss.
- Q. No. 3. "There are certain provisions in the Constitution of Pakistan 1973, which have been incorporated just to adorn the legislation but in fact are far from being actually practised." Discuss this statement with special reference to Article 62 and 63 of the Constriction.
- Q. No. 4. "It is fundamental principle of English law that parliament can do everything but make a woman a man, and a man a woman." But dicey examines this statement as the negative aspect of parliamentary sovereignty. Discuss.
- Q. No. 5. "Rule of law" forms a fundamental principle of the constitution. Explain how it (20) has influenced the British Constitution.
- Q. No. 6. 'The Senate of USA is the only example in the world of a second chamber that is in-contestably more powerful than the first and more popularly elected House'. Discuss.
- Q. No. 7. 'The Russian Federation is a Federation with a highly centralised (20) administration.' Discuss.
- Q. No. 8. Which is the highest organ of state authority in Peoples' Republic of China? (20) Explain its composition, power and functions.



Roll Number

	III. WWW	<u>C</u> F	RIMI	NOLOGY	www.cxxmoo.com www.	examon.c
TIME ALL PART-I(MO		THREE HOURS MAXIMUM 30 MINUT		PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
NOTE: (i) (ii) (iii)	Part-II Attempt SECTIO All the places. Candidat	ONLY FOUR question ON. ALL questions carry parts (if any) of each Questions write Q. No. in the Space be left blank between	separa ns from EQUA nestion e Answ	te Answer Book. n PART-II by sele AL marks. must be attempted ver Book in accorda	cting ONE question from at one place instead of at definition of the Q.Papblank pages of Answer Book	EACH lifferent per.
(vi)			any par	t of the attempted qu	nestion will not be considered	ed.
				ART-II CTION-I		
Q. No. 2.		liscuss the historical			Criminology in Pakistan. nology as a scientific	(20)
Q. No. 3.		the criminological blogical perspectives on		•		(20)
			SEC	TION-II		
Q. No. 4.		a comprehensive note t measures for the impre			e system of Pakistan.	(20)
Q. No. 5.	(a) Ca	hort notes on: uses of Juvenile delinquobation and Parole	uency	in Pakistan	(10 each)	(20)
		CEANDOLOGII WWW.CEAN	SEC'	TION-III		
Q. No. 6.		a comprehensive note te with examples from I			criminal investigation.	(20)
Q. No. 7.	investig	1	_		ines for the criminal swer with example from	(20)
		CELEBOO COM WWW.CLED	SEC	TION-IV		
Q. No. 8.				•	gencies in the control of dicalization in Pakistan.	(20)
Q. No. 9.	Write n	otes on:			(10 each)	(20)

To join the career community go to www.examoo.com

(a) Money-laundering in Pakistan

(b) Gender and Crime



Roll Number

ECONOMICS, PAPER-I

		REE HOURS XIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(iii)	Attempt ON) All the parts places.	be attempted on the separ LY FOUR questions from (if any) of each Question ust write Q. No. in the Ans	PART-II. ALL questin must be attempted at	one place instead of at d	lifferent
(v)	No Page/Spa be crossed.	ace be left blank between	the answers. All the b	lank pages of Answer Boo	ok must
(vi)	Extra attemp	ot of any question or any pa	m www.rttmoo.com	stion will not be considere	ed.
		moo.com www.esamoo.P	ART-II		
Q. No. 2.		the Indifference Approa easure utility? Explain.	ach to analyzing cor	sumer demand avoid	(20)
Q. No. 3.	Explain the Lewis Model of Modern-Sector Growth in a Two-Sector (2 Surplus-Labour Economy with graphical analysis.				(20)
Q. No. 4.	What do you know about 'Demand-Side' Inflation and 'Supply-Side' Inflation? (2 Explain with the help of graphs and briefly explicate the policies to tackle both sides Inflation.				
Q. No. 5.	How does the IS-LM model allow equilibrium to be shown in both Goods and Money Markets simultaneously? Elucidate with graphs.				(20)
Q. No. 6.		concept of Public debt? I developing countries lik		ns for tackling the debt	(20)
Q. No. 7.	Examine the causes of Balance of Payments problem under Fixed Exchange Rate in short-run keeping in view the New Classical and Keynesian Analyses.				(20)
Q. No. 8.	Explicate the	e following briefly:		(5 each)	(20)
	(a)	Difference between De	evelopment and Huma	an Development	
	(b)	Difference between Inc	come Inequality and I	Poverty	
	(c)	Sources of Governmen	t Revenue		
	(d)	Functions of Central B	ank		



Roll Number

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ECONOMICS, PAPER-II

TIME ALI PART-I(M	LOWED: THREE HOURS (CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
	Part-II is to be attempted on the separ Attempt ONLY FOUR questions from All the parts (if any) of each Question places.	PART-II. ALL questi		
(iv) (v)	Candidate must write Q. No. in the Ana		the second secon	
(vi)	Extra attempt of any question or any pa	art of the attempted ques	stion will not be considered	ed.
	oon www.ciamoo.com www.ciamoo P	ART-II		
Q. No. 2.	Explain the characteristics of Less I reference to Pakistan.	Developed Countries (LDCs) with particular	(20)
Q. No. 3.	Critically evaluate the economic p measures would you suggest for sou			(20)
Q. No. 4.	Elaborate the difference between development. What are the limitation policies of Pakistan? Discuss.			(20)
Q. No. 5.	Explain the major monetary and fiso development for the last 20 years.	cal measures taken in	Pakistan for industrial	(20)
Q. No. 6.	Highlight and explain changes in dir trends in exports and imports of Pak		nt years. Also explain	(20)
Q. No. 7.	Delineate the difference among priv Evaluate the experience of Pakistan		and decentralization.	(20)
Q. No. 8.	Write short notes on TWO of the fol	lowing:	(10 each)	(20)
	(a) Export-led Growth Strategy			
	(b) Growth vs. Distribution			
	(c) Energy Crisis in Pakistan			
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Roll Number

ENGLISH LITERATURE

	ENGLISH	ILIIERATURE		
TIME AL PART-I(N	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK	
(ii	 Attempt ONLY FOUR questions from All the parts (if any) of each Question places. Candidate must write Q. No. in the Annual No Page/Space be left blank between be crossed. 	on must be attempted at asswer Book in accordance the answers. All the b	cone place instead of at doce with Q. No. in the Q.Paplank pages of Answer Boo	ifferent oer. ok must
(*1)	com www.ciimoo.com www.ciimoo.co	om www.clillioo.com	stion will not be considere	u.
Q. No. 2.	In what way, Wordsworth has demo			(20)
Q. No. 3.	"The Waste Land" evoked the waste the horrors of World War-I; it is n Discuss.			(20)
Q. No. 4.	Bradly argues that Hamlet's inaction father's death and his mother's hast Hamlet procrastinate in killing the K	ty remarriage. What d		(20)
Q. No. 5.	D.H. Lawrence's <i>Sons and Lovers</i> is somewhat autobiographical in which is portrayed a young man's inner struggles caused by his affection for his mother. What self-realization does the protagonist experience after the death of his mother?			
Q. No. 6.	With what kind of evidence a psychoanalytic theory that children and how does it help us to interpret	entertain death- wishe		(20)
Q. No. 7.	Female poetics seeks to understand genres (lyric, poetry, novel, short others (epic, martial romance, drama	story, tale, letters, di		(20)
Q. No. 8.	(a) According to Emerson what the Where in the essay "Self-Restatements that tune the strings"	eliance" do you find	the clearest) (20)
	(b) Sketch the character of Thomas	as Wilson in Somerse	t Maugham's	

"The Lotus Eater." Is the title of the story appropriate to him?



Roll Number

ENVIRONMENTAL SCIENCES

TIME AL		ED: THREE HOURS : MAXIMUM 30 MI	INUTES	PART-I (MCQS) PART-II	MAXIMUM M MAXIMUM M	
	Atte i) All i place v) Can) No	et-II is to be attempted or empt ONLY FOUR quest the parts (if any) of eac es. didate must write Q. No. Page/Space be left bland crossed.	stions from h Question in the Ans	PART-II. ALL quest must be attempted a wer Book in accordan	t one place instead of ce with Q. No. in the	of at different Q.Paper.
(vi)		ra attempt of any question	n or any pa	rt of the attempted que	estion will not be con	sidered.
			P	ART-II		
Q. No. 2.	(A)	How the hazardous m the toxic material? Ex- linked with the hazard	xplain the			(10) (20)
	(B)	What stands for CERO		hy it is related with ha	zardous waste?	(10)
Q. No. 3.	do th	ch of the GHGs are the rey work? And what mit e atmosphere?				
Q. No. 4.	(A) (B)	Discuss the global eff shield. What evidence Discuss and comme Agenda 21.	is there that	at such efforts have be	en effective?	(12) (20) (8)
Q. No. 5.	UNF	e the political history of CCC (2015) conference ate change?			-	
Q. No. 6.	(A) (B) (C)	What do you understa How do forest burnin What impact would c and 'coastal environm	g and land changing cl	clearing affect the glo imate have on the 'ec	bal climate?	(4) (20) (8) (8)
Q. No. 7.	(A) (B)	What is genetic enginagriculture and the en What is the relation b	vironment'		www.tx20000.c000	(12) (20) (8)
Q. No. 8.	(a) (c)	e short notes on any FOU E-waste Eutrophication Smog	UR of the fo (b) (d) (f)		(5 ea	ch) (20)



Roll Number

EUROPEAN HISTORY

TIME ALI PART-I(M	LOWED: THREE HOURS [CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(iv	SECTION. ALL questions carry EQU) All the parts (if any) of each Question places.) Candidate must write Q. No. in the An	om PART-II by selecting UAL marks. In must be attempted at asswer Book in accordance	one place instead of at dewith Q. No. in the Q.Pap	ifferent oer.
(v) (vi)	be crossed.			
rww.czamoo.	com www.eiimoo.com www.eiimoo.l	PART-II	WWW.EXXIDOO.COM WWW.	examon.
	<u>SE</u>	CCTION-I		
Q. No. 2.	How did the French Revolution and liberalism, nationalism and conserva	A STATE OF THE PROPERTY OF THE	conquests stimulate	(20)
Q. No. 3.	What was the German Confederation classical problem of Central Europe		t to resolve the	(20)
Q. No. 4.	Between Mazzini, Cavour and Garib significant contribution to Italian uni		made the most	(20)
Q. No. 5.	Would it be a fair assessment of Bist Germany he laid the foundations of	~ .	creating a united	(20)
	<u>SE</u>	CTION-II		
Q. No. 6.	How did the First World War general radical left-wing and radical right-w			(20)
Q. No. 7.	What was, in your view, the most is abandon its historic policy of isola 1945?	-		(20)
Q. No. 8.	Write short notes on any FOUR of the (a) Georges Clemenceau (b) (c) The Cuban Missile Crisis (d) (e) Stalin (f)	The Berlin WallWinston Churchill	(5 each)	(20)



Roll Number

GENDER STUDIES

TIME ALI PART-I(N	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
ww.csamoo	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 question must be attempted at of swer Book in accordance the answers. All the black	one place instead of at dewith Q. No. in the Q.Papank pages of Answer Boo	lifferent per. ok must
	com www.ciimoo.com www.ciimoo.P	PART-II		
Q. No. 2.	Define and discuss the discipline between women studies and gender s		nd also differentiate	(20)
Q. No. 3.	What are the different forms of ge what could be the workable strategic Pakistani society?			(20)
Q. No. 4.	"Women active political participat economic development." Commer socio-economic realities of Pakistani	nt on this statement		(20)
Q. No. 5.	What is the status of women's heal within the available economic resour		it could be improved	(20)
Q. No. 6.	"Powerful forces of globalization had cultures and throughout the glob developing countries.	-	_	(20)
Q. No. 7.	Write a comprehensive note on autostudies.	onomy versus integrat	ion debate in gender	(20)
Q. No. 8.	Write short notes on the following: a. Honor killing b. Gender and development		(10 each)	(20)
	***	******		



Roll Number

GEOLOGY

	com www.riimop.com www.riim GE	<u>OLOGY</u>		
TIME AL PART-I(M	LOWED: THREE HOURS MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
www.camino	 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 Analysis 	om PART-II by selecting JAL marks. In must be attempted at swer Book in accordance.	one place instead of at deep with Q. No. in the Q.Pap	lifferent per.
(vi)	Extra attempt of any question or any pa	art of the attempted que	stion will not be considere	ed.
	CORD WWW.CIAIDOU.COM WWW.CIAIDOU.	PART-II CTION-I		
Q. No. 2.	Describe structure of neso silicates. Als properties of olivine group of minerals.	so draw its sketch. Narr	ate physical and optical	(20)
Q. No. 3.	Describe development of different typprocess. With the help of temperature metamorphic facies.			(20)
Q. No. 4.	What categories of information we depressive examples. Describe some of comments of the comments of the categories of th			(20)
Q. No. 5.	Outline important events of Indian Plate onwards in Pakistan region. Draw sketch	_	ectonics from Mesozoic	(20)
	SEC	CTION-II		
Q. No. 6.	Enlist methods of surface and near Describe implementation details of any of hydrocarbon in a region.			(20)
Q. No. 7.	Discuss the geological conditions the Pakistan. Describe some of the measure		nd sliding in northern	(20)
Q. No. 8.	Write notes on any TWO of the following	ng:	(10 each)	(20)
	a. Polarizing microscope			
	b. Paleobotany			
	c. Geothermal energy			



Roll Number

HISTORY FO PAKISTAN & INDIA

PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM M MAXIMUM M	
NOTE: (i) (ii) (iii	1	n PART-II. ALL quest		
ww.cxamno.	places.			
(iv (v)	 Candidate must write Q. No. in the Ar No Page/Space be left blank between be crossed. 			
(vi)		part of the attempted que	estion will not be con	sidered.
		om www.clilloo.com	WWW.SEEMINO.COM	
	com www.ciimoo.com www.ciimoo.	PART-II		
Q. No. 2.	"Conquest of Sindh in 712 opened Discuss.	ed the corridor to bo	th Islam and Trac	de". (20)
Q. No. 3.	Analyze Allauddin Khilji's econon state and society.	mic reforms and meas	sure its impact on	the (20)
Q. No. 4.	Discuss the sway of Sufism in 13 th a	and 14 th century AD.		(20)
Q. No. 5.	Examine the Religious Policy of Mu	ıghal Kings.		(20)
Q. No. 6.	Estimate the Hindu Reformist and I AD and also their impact on Muslim		of 19 th and 20 th cen	tury (20)
Q. No. 7.	"Lucknow Pact 1916 was forerunned	er to the creation of Pa	kistan." Discuss.	(20)
Q. No. 8.	Discuss the pros and cons of Pakista	nn's Foreign Policy.		(20)
	nin www.cramor.com www.cramo**	****		



Roll Number

INTERNATIONAL RELATIONS, PAPER-I

		TELETITION (S) TITLE	XX XX (1000, 200)
TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80
(iii	Attempt ONLY FOUR questions from i) 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.	a PART-II. ALL question in must be attempted at on swer Book in accordance the answers. All the blank	ne place instead of at different with Q. No. in the Q.Paper. k pages of Answer Book must
(12)			on will not be considered.
	com www.czzmoo.com www.czzmoo.P	ART-II	
Q. No. 2.	What are the essential differences be theories? In your opinion, why is realist International Relations?		
Q. No. 3.	The positivist and post-positivist debate and methodology to the study of Interitically evaluate the divergence between convergence?	ternational Relations. De	escribe, compare and
Q. No. 4.	The nation-state system is in a flux with another projected for Catalonia in Sep why the modern nation-state in Europe territorial integrity.	tember 2017. Critically e	evaluate reasons as to
Q. No. 5.	The rise of China is being heralded international relations. As the world essential features of the international sec	moves towards multipola	arity, account for the
Q. No. 6.	Define globalisation and its attendant rewith the view that economic globalisation stands to exploit the Third World states?	tion is a form of neo-im	
Q. No. 7.	Critically evaluate the strategically com the context of Pakistan's growing ties w the United States.		
Q. No. 8.	The non-state actor as a military compethe rise of ISIS. What strategies can the in order to ensure peace and security in	e United Nations and mag	



TIME ALLOWED: THREE HOURS

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION - 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

MAXIMUM MARKS = 20

INTERNATIONAL LAW

PART-I (MCQS)

(ii) A (iii) A (iii) A (iv) Ca (v) No (vi) E Q. No. 2. Int Q. No. 3. Ex La Q. No. 4. Ho hig	art-II is to be attempted tempt ONLY FOUR artempt ONLY FOUR ll the parts (if any) of aces. andidate must write Que o Page/Space be left be crossed. Extra attempt of any que ternational Law is Oxy aplain the basic different. Ow can good offices any ghhandedness? Analyzow does International I	ed on the separate questions from I feach Question. No. in the Answolank between the estion or any parameters of the estion or any parameters of the estion of the estimate	PART-II. ALL quest must be attempted at wer Book in accordance answers. All the but of the attempted quest are and Subsidiary	tions carry EQUAL marks t one place instead of at one place instead of at one ce with Q. No. in the Q.Pa lank pages of Answer Bo estion will not be consider sources of International ance of Security Council's	aper. ok must red. (20
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	com www.exampo.com		JWS? Explain with e	xamples.	(20
CO	nder Vienna Convent inditions of termination		I you define treaty,	its major features and	(2
-	ontevideo Convention		on of state?	etermination in context to	(26
). No. 8 Wi	rite short notes on any	TWO of the foll		(10 each)	(20
			ith an individual.	,	(_ 0
(b)) International Soft				
(c)	,				
	com www.czzmop.com				
		セセセ	*****		
		***	***		



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2017

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

Roll Number

ISLAMIC HISTORY AND CULTURE

	ISLAMIC HIST	ORY AND CULTU	<u>RE</u>	
TIME ALI PART-I(M	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(ii) (iii (iv	Part-II is to be attempted on the separatempt ONLY FOUR questions SECTION. ALL questions carry EQUAL the parts (if any) of each Question places. Candidate must write Q. No. in the Arm No Page/Space be left blank between be crossed.	from PART-II selectin UAL marks. on must be attempted at asswer Book in accordance.	one place instead of at d	ifferent oer.
(vi)	Extra attempt of any question or any p	part of the attempted que	stion will not be considere	d.
	noo.com www.examoo.com www.examo	PART-II		
	SE	CTION-I		
Q. No. 2.	Peace and security is the top-most preasons and a comprehensive comprehensive (PBUH).			(20)
Q. No. 3.	Throw light on Islamic Political Sys Pious Caliphs. Explain that how is in			(20)
Q. No. 4.	Write notes on any two of the follow	ving:		(20)
	(a) Statecraft & the administra	tion under the Umayya	nds.	
	(b) Religious Conditions in Ar	abia before the dawn of	of Islam.	
	(c) Educational system in the e	early phase of Islam.		
	SE(CTION-II		
Q. No. 5.	Point out the main features of Mu philosophy in Spain under the Musli	slim contribution to r	eligious literature and	(20)
Q. No. 6.	Discuss the role and response post-modernism.	of Muslim Scholars	to modernism and	(20)
Q. No. 7.	Discuss in detail the impact of Chistory.	rusades on Muslim S	ociety throughout the	(20)
Q. No. 8.	Write notes on the following:		(10 each)	(20)
	(i) Scientific achievements dur	ring Abbassids rule.		
	(ii) Dissemination of Muslim le	earning in the West.		

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Roll Number

JOURNALISM & MASS COMMUNICATION

TIME AL PART-I(N	LOWED: THREE HOURS MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(ii (ii	be crossed.	PART-II. ALL question must be attempted at swer Book in accordance the answers. All the bl	e one place instead of at one with Q. No. in the Q.Pa ank pages of Answer Bo	lifferent per. ok must
	com www.esamoo.com www.esamoo.p	ART-II		
Q. No. 2.	Briefly narrate the implications and model of Communication?	shortcomings of the	Shannon and Weaver	(20)
Q. No. 3.	Explain how Uses and Gratification understanding Mass Communication approach?		1.1	(20)
Q. No. 4.	How Mac Bride Commission rep modern societies? Discuss its recomm		nication problems in	(20)
Q. No. 5.	Define Public Relations. Also explai Pakistan.	n its tools and technic	ques and challenges in	(20)
Q. No. 6.	Define and explain the term Develop how it can be helpful in solving various			(20)
Q. No. 7.	"Pakistani media organizations are un ethics." Do you agree or not. Support			(20)
Q. No. 8.	Write brief notes on any TWO of the	e following:	(10 each)	(20)
	(a) Media as an agent of soci	al change		
	(b) Gerbner's Model of Con	nmunication		
	(c) Role of Social media in P	akistan		
	***	*****		



Roll Number

LAW

TIME AL PART-I(M	LOWED: THREE HOURS MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(iii	Part-II is to be attempted on the separation of	n PART-II. ALL question must be attempted at	one place instead of at d	lifferent
(v) (vi)	be crossed.		www.rsamoo.com www	
www.czzmoo.		PART-II	WWW.CIIMOO.COM WWW.	examoo.
Q. No. 2.	What is the relation of claim preclus res judicata? Differentiate between a			(20)
Q. No. 3.	Discuss the logic behind concept of lin non-bailable offences has been Procedure 1898 and other special cri	n curtailed under the	e Code of Criminal	(20)
Q. No. 4.	Critically appraise the constitutional Explain the procedure provided for re-	0	0	(20)
Q. No. 5.	Examine powers of Justice of Peac Whether these powers are in contrav			(20)
Q. No. 6.	Differentiate between appeal and recourts have the same powers and duti jurisdiction?			(20)
Q. No. 7.	Discuss background of Arbitration Act 2011. On what grounds an arbitr		0	(20)
Q. No. 8.	How Pakistan Penal Code has different Daman? Explain limits prescribed by			(20)

FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION - 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

PERSIAN

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

PART-I (MCQs)

PART-II

MAXIMUM MARKS = 20 MAXIMUM MARKS = 80

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

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

The poetry of Dara Shikoh has been devoted to the explanation of sufistic thoughts of the Prince. Although like the prose works, his poetical compositions can not be specifically dated, they do reveal the gradual development in his sufistic thought. The earlier verses may be regarded those which reveal him a simple muslim devoted to Islam and his faith in one God, in his last Prophet (PBUH) and respect for the four pious Caliphs.

SECTION-II

PERSIAN

(ب) بیا تا قدر یکدیگر بداینم تا ناگ ز یکدیگر نماینم کریمان جان فدای دوست کردند بگذار ما جم مردمایم گی خوش دل شوی از من که میرم مرده پرت د قصم جاینم چو بعد از مرگ خواهی آشتی کرد ہم عر از غمت در امتخانیم

ب بینه می پرم ره اگرچه یا نظشت که در شکایت وردوغم دوا نظنست الست لنكر كشتى و ناخدا نظتت ز بخت من خبر آرید که کجا نظست

(ح) به وادلی که در آن خفر را عصا خنست بروز حشر چنین خته روسیه فیزد جوا مخالف و شب تار و بح طوفان خيز درازی شب و بیداری من اینجمه نیست

موال نمبر 7: حكايت زيراب الكليسي ترجمه كرده بسوالهاى زيرياع بدهيد

کی از فضلاتعلیم ملک زاده ای همی دادوضرب بی محاباز وی وزجر بی قیاس کردی باری پسراز بیطاقتی شکایت پیش پدر بردو جامهازتن دردمند برداشت پدر رادل بهم براامداستادرا گفت که پسران آ حادرعیت را چندین جفاوتو نخ روانمید اری که فرزندمراسب چیست گفت سبب آنکه نخن اندیشید ه باید گفت و حركت بسنديده كردن همه خلق راعلى العوم وبإدشاهان راعلى الخضوص بموجب آنكه بردست وزبان ايشان هر چدرفته شودهرا آينه با فواه بگويندءوقول و فعل عوام الناس را چندان اعتباری نباشد _

- (۱) پدرراول تھم برآ مد چمعنی وارو؟
- (ب) پسران آ حادرعیت راچندین جفاوتو پخ روانمید اری میمفهومی دارد؟
 - (ج) ول بهم برآمهٔ چه عنی دارد؟ توضیح بدهید .
 - (د) برداشت کلی از این حکایت را بنویسد -

(10+10)

ازشاعران زير ازلحاظ كروبنر ووتارامورد بحث قرار بدهيد

(۱) رضاشفیعی کدئنی

(ب) اقبال شاعر فیلسوف (و) مختشم كاشاني شاعرر ثا

(ج) فردوی شاعرهماسدسرایی ایران

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سوال تمبر 8:



TIME ALLOWED: THREE HOURS

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION - 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

PART-I (MCQS) MAXIMUM MARKS = 20

PHYSICS, PAPER-I

PAKT-I	(MCQS):	MAXIMUM 30 MINUTES	PART-II	MAXIMUM MAR	KKS =	- 80
	(ii) Attem	II is to be attempted on the separ pt ONLY FOUR questions from the parts (if any) of each Questions	n PART-II. ALL questions	-		erent
	(iv) Candi (v) No Pa	date must write Q. No. in the Arage/Space be left blank between ossed.		-	-	
`		attempt of any question or any pof Calculator is allowed.	part of the attempted question	on will not be consid	lered.	100. CM
			PART-II			
Q. No. 2	. (a)	What is the cross product of t pseudo vector?	wo vectors? Why the cros	s product is called	(5)	
	(b) (c)	What is divergence of vector field What is line integral? Under we done.	1		(5) (5)	
	(d)	Consider three vectors:			(5)	(20)
		$\vec{A} = -3\hat{i} + 3\hat{j} + 2\hat{k}$ $\vec{B} = -2\hat{i} - 4$	$\hat{j} + 2\hat{k}$ and $\vec{C} = 2\hat{i} + 3\hat{j}$	$+1\hat{k}$		
		(i) Find $\vec{A} \cdot (\vec{B} \times \vec{C})$	(ii) Find $\vec{A}X(\vec{B}X\vec{C})$			
Q. No. 3	. (a) your	What do you mean by circular answer by taking an example fr		igal force? Explain	(5)	
	(b)	What is projectile motion? W catching a ball?				
	(c)	What do you mean by work system? Explain by taking an e	xample of each.		czan	oo.con
	(d)	A batsman hits a cricket ball a ball would strike the ground at a fielder at a distance 55 m cate angle of projection and the velo	60m from the batsman if it these the ball at a height of 1	is not stopped. But	(3)	(20)
Q. No. 4	. (a)	What do you mean by phase an group and phase velocity.	nd group velocity? Derive a	relation between a	(7)	
	(b)	What is superposition of waves by the superposition of two wardirection.	_	-	(7)	
	(c)	A medium is disturbed by an os $Y = 3.0cm \sin(\pi x/10cm) \cos(500)$ Determine the amplitude, frequency	$O\pi t)$	and direction of the	(3)	
	(d)	component waves whose super If light of $\lambda = 660$ nm has wave coherence time?	position produces this resul	t. w.c.ampo.com www	(3)	(20)
Q. No. 5	. (a)	What is unique about light fro look directly into a laser beam?	•	should you never	(5)	
	(b) (c)	What is plasma? What do you re How the blue laser is useful	mean by plasma frequency?	•		
	(d)	compared to red laser? For the He-Ne laser at 2m and			(5)	(20)
		enot diameters are 2 mm and 3	mm (alculate the angle of	divorgance		

PHYSICS, PAPER-I

Q. No. 6.	(a) (b)	and gases.		_	he viscosity of liqued destablish equation		,
	(c)	continuity.			illary when placed	·	<u> </u>
		container of merc	ury, while it is up i	in the capillary in c	case of water?		
	(d)	3 m/s. (i) What nozzle of		d for the water to e	er flows through it i merge at 10 m/s?	s at (4	1) (20)
Q. No. 7.	(a)	What do you un statistical mechan		sical statistical me	echanics and quant	um (6	6)
	(b)			Bose-Einstein and	l Maxwell-Boltzma	n's (6	6)
	(c)		ion of energy? Ex	plain.		(5	5)
	(d)	A 0.5m ³ vessal is by a paddel whee 1800 rpm. A force	filled with air at a lattached to a shaf	atmospheric pressure of the rim of the sha	re. The air is chur, rotating at a speed ft. What would be	d of	3) (20)
Q. No. 8.	Write (a)				(5 each g specific rotation of		(20)
	(b)	liquid.	a atrina				
	(b)	Wave equation or		C 1: -1-4			
	(c)		alous dispersion of	f light.			
	(d)	Kinetic theory of	0				
	(e)	Scalar Triple prod	luct.				
			****	*****			
						Pag	ge 2 of 2
						1 4	50 2 01 2



Roll Number

PHYSICS, PAPER-II

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

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

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

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

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

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

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

(vii) Use of Calculator is allowed.

		PART-II		
Q. No. 2.	(a)	What is dipole moment? Obtain the expression for the potential and field	(10)	
	(b)	due to an electric dipole. Calculate the potential at a point on the axis of circular plastic disk of radius R, one surface of which carries a uniform charge density σ .	(8)	
	(c)	Why do we use unit "electron volts"?	(2)	(20
Q. No. 3.	(a) (b)	State and explain the Biot Savart law. State and prove Ampere's law. Apply it to calculate the magnetic field due to a solenoid.	(4) (10)	
	(c)	A long straight wire carries a current of 20 Amperes. An electron at 2.0 cm from the wire is travelling at a speed of 10 ⁷ m/sec. What force acts on the electron if its motion is directed (1) towards the wire, (2) parallel to the wire and (3) at right angles to the direction given in (1) and (2).	(6)	(20
Q. No. 4.	(a)	Write the Maxwell's equations and explain the significance of each equation.	(6)	
	(b)	Deduce the Maxwell equations for free space and also prove that electromagnetic waves are transverse.	(12)	
	(c)	What is index of refraction?	(2)	(20)
Q. No. 5.	(a)	Describe the Stern Gerlach experiment that provided experimental evidence of the space quantization of atomic magnetic moments.	(10)	
	(b)	What is the physical significance of the three quantum numbers n, 1, and m in the labelling of the hydrogenic wave functions?	(6)	
	(c)	What do you understand by strange particles?	(4)	(20)
Q. No. 6.	(a)	What is liquid drop model of nucleus and write down its essential features?	(8)	
	(b)	What are magic numbers? How can they be generated on the basis of shell model?	(8)	
	(c)	What is nuclear fusion?	(4)	(20)
Q. No. 7.	(a)	Differentiate the Metals, Semiconductors and Insulators on the basis of Energy Band Theory.	(6)	
	(b)	What is a rectifier? How we can use diode as a rectifier? Explain half-wave rectification in detail with diagrams.	(14)	(20)
Q. No. 8.	Writer	short notes on any TWO of the following: (a) Schrodinger equation (b) Linear accelerator (c) Cyclotron (10 each	ach)	(20)



Roll Number

POLITICAL SCIENCE, PAPER-I

		CHERCE, I'M EX-	****.0x20000,000 ****.	
TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(iv (v)	Attempt ONLY FOUR questions fro EACH SECTION. ALL questions can 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.	m PART-II by selecting EQUAL marks. In must be attempted at swer Book in accordance the answers. All the bloom in the bloo	one place instead of at dee with Q. No. in the Q. Paank pages of Answer Boo	lifferent iper. ok must
(vi)	Extra attempt of any question or any pa	art of the attempted que	stion will not be considere	ed.
	com www.eiimoo.com www.eiimoo P	PART-II		
	SEC	CTION-I		
Q. No. 2.	Compare and contrast the different polare these philosophies implemented making?			(20)
Q. No. 3.	No. 3. According to Marx "the mode of production in material life determines the general character of social, political and spiritual process in life". Elucidate.			(20)
Q. No. 4.	Discuss the upward and downward discocio-political thought of Ibn Khaldun.	_	rulers and ruled in the	(20)
	SEC	CTION-II		
Q. No. 5.	What is the Islamic concept of state? concept of state in the modern times.	Identify issues and ch	nallenges to the Islamic	(20)
Q. No. 6.	What characteristic of society leads to a can function successfully?	doption of federal form	of government? How it	(20)
Q. No. 7.	Compare and contrast the differing role in making public policy?	s played by political pa	rties and interest groups	(20)
Q. No. 8.	What is Fascism and why is it conside	red to be the child of t	first half of 20 th century	(20)

events to place in Europe?



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Roll Number

POLITICAL SCIENCE, PAPER-II

TIME ALI PART-I(M	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
(ii) (iii (iv	Part-II is to be attempted on the separal Attempt ONLY FOUR questions from and THREE Questions from SECTION 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.	n PART-II. Selecting Ole N-II. ALL questions car in must be attempted at of swer Book in accordance	ry EQUAL marks. one place instead of at d with Q. No. in the Q.Pap	ifferent per.
(vi)		art of the attempted quest	ion will not be considere	ed.
	moo.com www.examoo.com www.exami <u>P</u>	ART-II		
	SEC	CTION-I		
Q. No. 2.	To what extent is it true that the Presid the Prime Minister of the United comparative analysis.			(20)
Q. No. 3.	Discuss the basic norms of regional postructure of the European Union.	olitico-economic integrati	ion and organizational	(20)
	SEC	CTION-II		
Q. No. 4.	"A strong political system needs a very by making a comparative and analytical	The state of the s		(20)
Q. No. 5.	Allama Muhammad Iqbal and Quaid-e-leaders who led the Muslim Nation visions in South Asia. Discuss their co the subcontinent.	towards success through	h their socio-political	(20)
Q. No. 6.	Discuss the Major issues during the cor 1962 and 1973.	astitutional making proce	ss in Pakistan in 1956,	(20)
Q. No. 7.	How far do you agree that the Politica and demolished the political system of F			(20)
Q. No. 8.	Write comprehensive notes on the follow	wing:	(10 each)	(20)
	(a). Foreign policy making proces	s in Pakistan.		

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(b). Global Civil Society



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2017

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Roll Number

PSYCHOLOGY

TIME ALLO PART-I(MO		PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80
(ii) (iii) (iv) (v)	Part-II is to be attempted on the separa: Attempt ONLY FOUR questions from I All the parts (if any) of each Question places. Candidate must write Q. No. in the Answ No Page/Space be left blank between the crossed. Extra attempt of any question or any particles.	PART-II. ALL questi must be attempted at wer Book in accordance the answers. All the bl	one place instead of at different e with Q. No. in the Q.Paper. ank pages of Answer Book must
(*1)	o.com www.ciimoo.com www.ciimoo.co	ART-II	stion will not be considered.
Q. No. 2.	Define Personality. Discuss in detail	m www.ezamoo.com	of personality. (20)
Q. No. 3.	Differentiate between fine sensation.	on and perception.	Elaborate Gestalt (20)
Q. No. 4.	What is reliability of psychological reliability for test with suitable examinations.		different types of (20)
Q. No. 5.	Differentiate between intelligence (Also discuss major theories of examples.		
Q. No. 6.	Define psychological disorders and therapeutic techniques used by the of psychological disorders.		
Q. No. 7.	What are different leadership styles of theories? Elaborate the characteristic leaders with appropriate examples.		
Q. No. 8.	Write comprehensive notes on any T (A) Goals of psychotherapy (B) Test Validity and its Types (C) Development in childhood	WO of the followin	g: (10+10) (20)

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Roll Number

PUBLIC ADMINISTRATION

	LOWED: THREE HOURS CQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
	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. Extra attempt of any question or any page.	n PART-II. ALL questing must be attempted at swer Book in accordance the answers. All the bl	one place instead of at of the with Q. No. in the Q.Parank pages of Answer Boo	lifferent per. ok must
	on www.examoo.com www.examoo.eo	PART-II		
Q. No. 2.	Appropriate separation of powers be branches ensure effective check a administration. Discuss, the statemen which forced Nixon to resign as head of	nd balance and hen at in the light of histo	ce accountable public	(20)
Q. No. 3.	Privatisation as a global phenomenon hascope, especially in state-dominated por against arguments.			(20)
Q. No. 4.	Discuss in detail the Prismatic-Sala evaluate the under-developing society a			(20)
Q. No. 5.	Harnessing intrinsic motivation within service delivery and effective curb on public service motivation paradigm James L. Perry.	corruption. Discuss the	statement in the light of	(20)
Q. No. 6.	Public sector innovation creates value processes or services. Discuss factors sector in Pakistan.			(20)
Q. No. 7.	There are three major forms of addelegation and devolution each with d is the most suitable form within the Pal	ifferent set of character	ristics. Argue which one	(20)
Q. No. 8.	Write substantive notes on any TWO o (a) Zero based budgeting (b) Judicial Activism (c) Social Policy	f the following:	(10 each)	(20)

FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION - 2017 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

PUNJABI

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

PART-I (MCQs)

PART-II

MAXIMUM MARKS = 20 MAXIMUM MARKS = 80

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

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

PART- 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.
- (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.

	اب د يو _	نځ (5) سوالال دے جو	: ایس جصے و چول ا	نوٹ	
(16)				بابا فريد سنخ شكرٌ نے اخلا قیات نو	سوال نمبر2:
(16	ياو؟ ((: نال کھوں تیک اتفاق کردے	لقرا ندردا''تسیں ایس رائے	''بلھےشاہ دی کا فی سُن کے فحد ا	سوال نمبر 3:
(16) ctimo com	_ کیوں؟ بیان کرو۔	إمان رّان آھيا جاندااے	پیرفضل گجراتی نوں پنجابی غزل د	سوال نمبر 4:
(16)	كيتسين ايس كل نال مثفق او ـ	اشاعروی آ کھیاجا ندااے۔	منير نيازى نوں نویں امڪانات د	سوال نمبر5:
(16)	www.examoo.com www.examoo.com www.examoo.com		يه چش کرو۔	''چوہ مغیوال'' دافنی تے فکری تج	سوال نمبر 6:
(16) كرو ₋) دیندے نیں۔ویروے نال ⁸	ے بہت ہوہے ثمونے وکھا کی	''جهاتیال''وچ نفسیاتی تقیدد.	سوال نبر 7:
(16)	مثالا ل را ہیں بیان کرو۔	تے ثقافت دے املین نیں۔	<u>"</u> بنجا بی اوک گیت ساڈی تہذیب	سوال نمبر8:
(16	WWW.EIIMOO.COM WWW.EIIMOO.COM WWW.EIIMOO.COM WWW.EIIMOO.COM	(8+8)	تے گھر دال نوٹ لکھو۔ ب وچ''مواعظ نوش'' دی ا دچ''ادب سمندر'' دامقام ****	میشطی سرناویاں وچوں کسے دوا۔ (الف) بخالی دےنثری اد (ب) بخالی تقیدی ادب (ج) لوک گیت' ماہیا''	سوال نمبر 9:



Roll Number

PURE MATHEMATICS

 NOTE: (i) Attempt FIVE questions in all by selecting TWO Questions each from SECTION 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 a places. (iii) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q (iv) No Page/Space be left blank between the answers. All the blank pages of Answer be crossed. (v) Extra attempt of any question or any part of the attempted question will not be considive. Vi) Use of Calculator is allowed. SECTION-A Q. 1. (a) Let H, K be subgroups of a group G. Prove that HK is a subgroup of G if and only if HK=KH. (b) If N, M are normal subgroups of a group G, prove that NMI/M ≅ N/N∩M. Q. 2. (a) If R is a commutative ring with unit element and M is an ideal of R then show that M is a maximal ideal of R if and only if R/M is a field. (b) If F is a finite field and α ≠ 0, β ≠ 0 are two elements of F then show that we can find elements a and b in F such that 1 + αa² + βb² = 0. 	RKS = 100
 (ii) All the parts (if any) of each Question must be attempted at one place instead of a places. (iii) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q (iv) No Page/Space be left blank between the answers. All the blank pages of Answer be crossed. (v) Extra attempt of any question or any part of the attempted question will not be consid (vi) Use of Calculator is allowed. SECTION-A Q. 1. (a) Let H, K be subgroups of a group G. Prove that HK is a subgroup of G if and only if HK=KH. (b) If N, M are normal subgroups of a group G, prove that NM/M ≅ N/N∩M. Q. 2. (a) If R is a commutative ring with unit element and M is an ideal of R then show that M is a maximal ideal of R if and only if R/M is a field. (b) If F is a finite field and α ≠ 0, β ≠ 0 are two elements of F then show that we can find elements a and b in F such that 	-A&B and
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 Q. 1. (a) Let <i>H</i>, <i>K</i> be subgroups of a group <i>G</i>. Prove that <i>HK</i> is a subgroup of <i>G</i> if and only if <i>HK=KH</i>. (b) If <i>N</i>, <i>M</i> are normal subgroups of a group <i>G</i>, prove that NM/M ≅ N/N∩M. Q. 2. (a) If <i>R</i> is a commutative ring with unit element and <i>M</i> is an ideal of <i>R</i> then show that <i>M</i> is a maximal ideal of <i>R</i> if and only if <i>R/M</i> is a field. (b) If <i>F</i> is a finite field and α ≠ 0, β ≠ 0 are two elements of <i>F</i> then show that we can find elements <i>a</i> and <i>b</i> in <i>F</i> such that 	W.CEATHOO.CO
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that M is a maximal ideal of R if and only if R/M is a field. (b) If F is a finite field and $\alpha \neq 0$, $\beta \neq 0$ are two elements of F then show that we can find elements α and β in M such that	(10) (20)
can find elements a and b in F such that	(10)
	(10) (20)
Q. 3. (a) Let <i>V</i> be a finite-dimensional vector space over a field <i>F</i> and <i>W</i> be a subspace of <i>V</i> . Then show that <i>W</i> is finite-dimensional,	(10)
$\dim W \leq \dim V$ and $\dim V/W = \dim V - \dim W$.	
(b) Suppose V is a finite-dimensional vector space over a field F . Prove that a linear transformation $T \in A(V)$ is invertible if and only if the constant term of the minimal polynomial for T is not 0.	(10) (20)
SECTION-B	
Q. 4. (a) Use the Mean-Value Theorem to show that if f is differentiable on an interval I , and if $ f'(x) \le M$ for all values of x in I , then $ f(x) - f(y) \le M x - y $ for all values of x and y in I . Use this result to show further that $ \sin x - \sin y \le x - y $.	(10)
(b) Prove that if $x = x(t)$ and $y = y(t)$ are differentiable at t , and if $z = f(x,y)$ is differentiable at the point $(x,y) = (x(t),y(t))$, then $z = f(x(t),y(t))$ is differentiable at t and $\frac{dz}{dt} = \frac{\partial z}{\partial x} \frac{dx}{dt} + \frac{\partial z}{\partial y} \frac{dy}{dt}$ where the ordinary derivatives are evaluated at t and the partial derivatives	(10) (20)
are evaluated at (x, y) .	
Q. 5. (a) Evaluate the double integral $\iint_{R} (3x - 2y) dx dy$	(10)
(b) Where <i>R</i> is a region enclosed by the circle $x^2 + y^2 = 1$. Find the area of the region enclosed by the curves	(10) (20)
$y = \sin x, y = \cos x, x = 0, x = 2\pi.$	
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PURE MATHEMATICS

- Q. 6. Find an equation of the ellipse traced by a point that moves so that the sum (10)of its distance to (4,1) and (4,5) is 12.
 - **(b)** Show that if *a*, *b* and *c* are nonzero, then the plane whose intercepts with the (10)(20)coordinate axes are x = a, y = b, and z = c is given by the equation.

$$\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1.$$

SECTION-C

Prove that a necessary and sufficient condition that

(10)

w = f(z) = u(x, y) + iv(x, y)be analytic in a region R is that the Cauchy-Riemann equations $\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y} \text{and} \frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x}$

$$\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y}$$
 and $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x}$

are satisfied in R where it is supposed that these partial derivatives are continuous in R.

- Show that the function $f(z) = \bar{z}$ is not analytic anywhere in the complex **(10) (20)**
- Q. 8. Let f(z) be analytic inside and on the boundary C of a simply-connected (10)region R. Prove that

$$f'(a) = \frac{1}{2\pi i} \oint_{\mathcal{C}} \frac{f(z)}{(z-a)^2} dz.$$

(b) Show that

(10) (20)

$$\int_0^{2\pi} \frac{d\theta}{(5-3\sin\theta)^2} = \frac{5\pi}{32}$$



PUSHTO

Roll Number

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

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

- (ii) Attempt ONLY FOUR questions from PART-II. Answers 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
- (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.
- Extra attempt of any question or any part of the attempted question will not be considered.

PART-II

(14).(a) لاندینے انګرېزي عبارت په حیاري پښتو کښې ترجمه کړئ

The flowing zeal, the religious fervour, the passion for freedom, the true courage, the love of battle-field, the vindictive spirite, the rigid eastern realism, the penetrating wit, the harmony, music, the magnificent decision, deep photos and in diction command of language are characteristics of Khushhal's poetry.

(06)لاندینو نه صرف د دریو په پښتو کښي ترجمه اوکړی (2 each) . (b)

- (i) The virtuous waits, the unvirtuous strikes. (ii) A well cannot be dug with one pick-axe.
- (v) Noble men die, their noble deeds survive. (vi) He who is cunning will clear himself.
- (iii) The spectator hits the bull's eye. (iv) The elders did it, the children copied them.

(a) لاندی ورکرل شوے پښتو عبارت په انګرېزی کښی ترجمه کړی. (14) پښتونولی د پښتانهٔ د ژوند نظام دے ـ دې ته د پښتنو کلتور يا ثقافت مم وئيلے ، ولي د پښتونولي اصطلاح په خپلو معنو کښي له دغه بېن المللي اصطالحاتو نه څۀ زياته پراختيا لري، ځکه چې دا پښتونولی د ژوند د نظام او طريقي سره سره د پښتانۀ د ایمان علامت هم ګڼلے کېږي ، دا د پښتنی اخلاق او کردار فلسفه هم ده ، او د پښتانهٔ وند جواز هم ، که ژوندد پښتونولي د اصولو سره سم ؤ، خو ژوند ورته وئيلے شي ، که

ينو متلونو نه و په انګرېزي کښې ترجمه اوبهٔ په پيچون بيايه که لاړې لاړې ، که نه ښکته نې لار ده. (06) (2 each) (b) د لاندینو متلونو نه بوس راوړه شوملي وړه ، د ماما کور دې خپل دے.

پښتون چې پښتو نه لري زمکه دې پرې ډکه شي. تشه تلي تشه راتلي ، د پيڅو دوړي دي تل

ـ چې اورې هغه وايه ، چې وينې هغه مه وايه. هٔ بالهٔ شی ، نهٔ شارهٔ شی.

نـهٔ وی نـو دا د ژونـد یـه معنا نـهٔ دے ـ

: _په نسلی توګه پښتانهٔ څوک دي په دې اړه مدلل بحث اوکړئ-(20)

ـ په پښتو ژبه او ادب د خوشحال بابا په ا وليكئ قلندر مومند بحثیت ادیب و نقاد او د هغهٔ به ژوند جامع بحث

ابتدا د نظم نه پس شوې ده، په دېحقله

په مثالونو سره ثابته کړی چی ''ټپه د پښتنو د معاشرتي ژوند (20)' ' (Reflection)



Roll Number

SOCIOLOGY

TIME AL PART-I(M	LOWED: THREE HOURS ACQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARK MAXIMUM MARK	
ww.cxamoo	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 question must be attempted at swer Book in accordance the answers. All the bla	one place instead of at de with Q. No. in the Q.Papank pages of Answer Boo	oer. ok must
www.cximoo	com www.csamoo.com www.csamoo.p	ART-II	www.clamoo.com www.	ctamoo.c
Q. No. 2.	How evolutionary theories of societies? Compare and coof thoughts for understanding phenor	ontrast the classical and	d neo-classical school	(20)
Q. No. 3.	3. What are core elements which lead to develop rigorous research design in social research? (20)			
Q. No. 4.	Discuss in brief the socio-cultural factors that may enhance and retard the process of social and cultural change in societies. (20)			
Q. No. 5.	5. Marx and Weber theorized that modern society alienated people. How do their approaches contrast each other and how their concepts of alienation can be compared with Durkheim's concept of anomie?			(20)
Q. No. 6.	What key characteristics distinguish capitalism from socialism? Compare these two systems in terms of productivity, economic inequality and personal freedom.			
Q. No. 7.	What is the role of culture in social member of a society? Discuss whenomenon.			(20)
Q. No. 8.	Write note on the following.		(10 each)	(20)
	(a) Political economy of glob	oalization		
	(b) Regional migration			
	***	*****		



Roll Number

STATISTICS

TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 20**PART-I(MCOS): 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. 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) Use of Calculator is allowed. **PART-II SECTION-I** Suppose a set of observations has mean \bar{X} and variance s². What happens to the Q. No. 2. (8)mean and variance if each score is divided by s and then \bar{X} is subtracted from each quotient? Is the result same if you first subtract \bar{X} from each score and then divide the difference by s? Calculate (12)(ii) Co-efficient of variation (iii) Co-efficient of Skewness and discuss the result from the following weekly wages of 300 workers. Below Below Below Below Below Below Below Weekly wages 15 5 10 20 25 30 35 No. of workers 78 120 189 205 275 300 Q. No. 3. (a) If the probability that an individual suffers a bad reaction of a given serum is (8) 0.001, determine the probability that out of 2000 individuals (a) exactly 3 and (b) more than 2 individuals will suffer a bad reaction. Find the answer using both poisson and the binomial distributions. A random variable to assume the value 1 with probability p, with probability **(6)** q = 1 - p. Prove that (a) E(X) = p and (b) $E[(X - \bar{X})^2] = pq$. An experiment consists of drawing three cards in succession from a well-**(6)** shuffled ordinary deck of cards. Let E_1 be the event "king" on the first draw, E_2 be the event "king" on the second draw, E_3 be the event "king" on the third draw. State in words the meaning of each of the following: (i) $\operatorname{pr}\{E_1\bar{E}_2\}$ (ii) $\bar{E}_1+\bar{E}_2$ (iii) $\bar{E}_1\bar{E}_2\bar{E}_3$ (v) $\operatorname{pr}\{\bar{E}_3|\mathbf{E}_1|\bar{E}_2\}$ (iv) $pr\{E_1 + E_2\}$ (vi) $pr\{E_1E_2 + \bar{E}_2E_3\}$ What is regression model? Write the assumptions made in a linear regression. Q. No. 4. (8) Also proof the Comment on the unbiasedness of regression estimates. **(b)** Calculate coefficient of correlation by the method of least squares for the (12)following paired values of X and Y variables. Also verify that this value of r is same as that obtained by pearson's formula.

13

17

9

18

13

12

6

X

Y

10

5

SECTION-II

Q. No. 5. (a) Discuss time reversal test and explain the factor reversal test.

(8)

(12)

(b) Per capita income of a person from 1980-81 to 1986-87 and the consumer price index with 1980-81 were as follows:

Year	Income per capita (Rs)	Index Nos.
1980-81	1627	100
1981-82	1851	103.5
1982-83	1993	103.4
1983-84	2290	109.4
1984-85	2494	110.9
1985-86	2735	113.8
1986-87	2970	115.6

Find real wages and real income indices.

Q. No.6. (a) What is the difference between population census and vital statistics? What are the various uses of vital statistics for a country?

(8)

(b) The population and its distribution by sex and number of births in a tehsil in 1991 and survival rates are given below:

(12)

	Group	Population	Males	Females	Male birth	Female birth	Total birth	Survival rate
	15-19	11832	6145	5687	65	60	125	0.91
	20-24	10538	5214	5324	144	132	276	0.90
	25-29	9375	4655	4720	135	127	262	0.84
	30-34	7843	3910	3933	82	81	163	0.87
110	35-39	7270	3600	3670	62	56	118	0.85
	40-44	6315	3290	3025	12	15	27	0.83
100	45-49	5394	2793	2601	3	3	6	0.82
	Total	58567	29607	28960	503	474	977	IIID, EUU) WWW. C

From the given data, calculate

(i) General fertility rate

(ii) Age specific fertility rate

(iii) Total fertility rate

(iv) Gross production rate

(v) Net reproduction rate

Assuming no mortality.

Q. No. 7. (a) Given the following data obtained from a completely randomized design with four treatments; analyse the given data and draw conclusion about the equality of treatment effects.

www.czzmoo.com	Treati	ments	WWW.CX11000.COG
www.raT1.co.com	T_2	T ₃	T ₄
20.9	23.7	13.2	5.8
12.4	14.4	10.2	6.1
10.1	9.0	5.1	4.8
4.2	9.0	3.1 mm	1.5

(b) Give Statistical model for completely randomized design with one observation per unit.

(c) What is the role of randomization in the process of the experimentation?

Discuss and define experimental error. What factors are responsible for determining the number of replications?

(6)

(6)

STATISTICS

<u>z.1</u> N0.0.	(a)	complete a task. A average of 11 min significance that	a random sample of 150 workers in another large farm took an nutes to complete the task. Can it be assumed at 1% level of the average time taken by the workers in the two farms is of the workers of first farm and second farm are 2 minutes and vely?				
	(b)	Describe the gene	ral procedure for	testing a hypoth	nesis about a diff	erence (6)	
		_	on mean, when san			www.examoo.com	
	(c)	Distinguish between	een:			(6)	
		(i) Sampling erro	or and non-samplir	ng error			
				d without replaceme	ant		
		HOOLOOMERS, WWW	www.czzmoo.com	www.gazotoo.cam	WWW.EXEMPOO.COM		
		(iii) Probability as	nd non-probability	Sampling			
			*****	*****			
						Page 3 of 3	



Roll Number

TOWN PLANNING & URBAN MANAGEMENT

TIME ALL PART-I(M		ART-I (MCQS) ART-II	MAXIMUM MARKS MAXIMUM MARKS		
NOTE: (i) (ii)	Part-II is to be attempted on the separate Attempt ONLY FOUR questions of SKETCHES, DIAGRAM and FLOW EQUAL marks.	from PART-II.	Elucidate your answers necessary. ALL questions		
(iii)	All the parts (if any) of each Question n places.	nust be attempted a	at one place instead of at di	fferent	
(iv) (v) (vi)	Candidate must write Q. No. in the Answe No Page/Space be left blank between the be crossed. Extra attempt of any question or any part	e answers. All the	blank pages of Answer Bool	k must	
(VI)		RT-II	lestion will not be considered	1.	
Q. No. 2.	'Town Planning' is considered to be a the different professionals that should explaining the ways in which they car	n multidisciplinary ld be part of a t	own planning exercise,	(20)	
Q. No. 3.	Cities in Pakistan have witnessed uncontrolled growth as part of rapid urbanization. In the role of a technocrat and decision maker what would be your approach to address the issues of our urban centres gearing them towards a more balanced and sustained growth.				
Q. No. 4.	What do you understand by the 'humit should be incorporated within plann	*	The second comments of	(20)	
Q. No. 5.	Informal settlements in cities have off masses in Pakistan. In the light of ediscuss possible ways of improvem examples of such initiatives in Pakista	examples from the	ne developing countries	(20)	
Q. No. 6.	Explain what is an Intelligent Transpose such systems in the context of Pakista			(20)	
Q. No.7	What do you understand by the Cosmopolitan city? Using examples of planning and management of such	of cities in Pakista	n discuss the challenges	(20)	
Q. No. 8	Write short notes on any two of the (i) Garden City Movement (ii) Urban Area Conservation (iii) Poverty Alleviation through Pl ******	WWW.C131000.C000 WWW.C131000.C000 WWW.C131000.C000	g appropriate examples: (10 each)	(20)	

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION - 2017

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

Roll Number

URDU LITERATURE

TIME ALLOWED: THREE HOURS

PART-I(MCQs): MAXIMUM 30 MINUTES

PART-I (MCQs)

MAXIMUM MARKS = 20 MAXIMUM MARKS = 80

PART-II 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

(15)

سوال نمبر 2 (الف) درج ذیل میں ہے کی ایک جزو کی تشریح سیجیے۔شاعر کا نام بھی کھیے۔

(۲) ہم وہاں ہیں جہاں ہے ہم کو بھی یکه ماری خرنہیں آتی

(n) سائے میں تاک کے جھے رکھااسر کر صياد كرم تفض آشيال موا

(۱) مرتے ہیں آرزومیں مرنے کی موت آتی ہے رہیں آتی

(٣) كوفت عاناب يآئى ب ہم نے کیاچوٹ دل پرکھائی ہے

(۲) مواگرخودگرخودگروخود گیرخودی

بيہ بھی ممکن ہے کہ تو موت سے بھی مرنہ سکے (٣) عشق دم جبرئيل، عشق دل مصطفى عشق خدا كارسول، عشق خدا كايغام

(۱) جمال تازه کی افکار تازه ہے نمود کے سنگ وخشت ہے ہوتے نہیں جہاں پیدا

(m) مردخدا كأثمل عشق سے صاحب فروغ عشق باصل حيات موت باس يرحرام

(10)

(ب) مندرجه ذیل میں ہے کوئی ایک سوال حل سیجید۔اشعارے دلائل بھی ویجے۔ ناصر کاظمی کی غزل ان کے تج بے اور دل کی وار دات کا اظہارتھی۔

فیض احد فیض کی غزل ہے موضوعات کا جمالی جائز ہیش کیجے۔

سو**ال نمبر 3 (الف)**: شبلی کاذ ہن منطقی تر تیب کا حامل تھا۔استدلال ان کا مزاج تنخیل کمال۔اس حوالے سے سیرت النبی کےاسلوب پررائے دیجیے۔ (15)

مشاق احدیوشی اد بی طنز ومزاح کے اُفق کا درخشندہ ستارہ ہیں۔ " آب گم " کے مضامین رمخضر مگر جامع رائے دیجے۔

(ب) مندرجہ ذیل اقتباسات میں ہے کسی ایک کی تشریح سیجیے نیزمضمون کاعنوان اورمصنف کا نام بھی ککھیے ۔ " مگرانسان کی بھلائی اخیرتک جاری رہتی ہے۔ میں تمام انسانوں کی روح ہوں ، جو جھے کوتنخیر کرنا جا ہے انسان کی بھلائی میں کوشش کرے ، کم سے کم

ا بني قوم كى بھلائى ميں دل وجان و مال ہے مساعى ہو۔ يہ كہہ كروہ دلهن غائب ہوگئى۔اور بڈ ھا بھرا بني جگه آ بيٹھا۔"

"اس تقریرے ہمارا مطلب یہ ہے کہ تمام خرابیوں کی جرجوہم پرنازل ہیں یہی ہے کہ ہم نے اپنے دل کواوراینے اندرونی قوئ کو بالکل خراب کرویا ہے۔ علم جو حاصل کرتے ہیں وہ بھی بعوض اس کے کہ روحانی قو کی کوشگفتہ وشاداب کر ہے ان کو پژمر دہ بلکہ مردہ کر دیتا ہے اور ہمارے قو کی کو جو To join the career community go to www.examoo.com

درحقیقت سرچشمے تمام نیکیوں کے ہیں بالکل کمز وراور نا کارہ کر دیتا ہے۔"

(10)

سی ایک نثریارے کی کیفض کیجھے۔

سوال تمبر 4:

(۱) " والله بالله اگر کسی شنم او بیاامیر زادے کے دیوان کا دیباچہ لکھتا تواوس کی اتنی مدح نہ کرتا جتنی تمہاری مدح کی ہے۔ ہم کواور ہماری
روش کواگر بہچانے تو اتنی مدح کو بہت جانے قصہ مختصر تمہاری خاطر کی اورایک فقرہ تمہارے نام کابدل کراوس کے عوض ایک فقرہ اور لکھ
دیا۔ اس سے زیادہ بھٹی میری روش نہیں نظاہر تم خووفکر نہیں کرتے ۔ اور حضرات کے بہکانے میں آجاتے ہو۔ وہ صاحب تو بیشتر اس نظم و
نشر کو مہمل کہیں گے ، اس واسطے کہ اون کے کان اس آواز ہے آشنا نہیں ۔ جولوگ کہ قتیل کوا چھے لکھنے والوں میں جانیں گے ، وہ نظم ونشر کی
خولی کو کہا بہجا نمیں گے۔ "

6

(۲) " آپ کا وہ خط جوآپ نے کا نپور سے بھیجاتھا، پہنچا۔ با بوصاحب کے سیروسفر کا حال اور آپ کا کھنٹو جانا اور وہال کے شعرا سے ملناسب معلوم ہوا۔ اشعار جناب رند کے پہنچنے کے ایک ہفتہ بعد درست ہو گئے اور اصلاح اور اشارے اور فوائد جیسا کہ میر اشیوہ ہے جمل میں آیا۔ جب تک کداون کا یا تمہار اخط ند آوے اور اقامت گاہ معلوم ند ہو، میں وہ کو اغذ ضروری کہال بھیجوں اور کیونکر بھیجوں؟ اب جو تمہارے لکھنے سے جانا کہ 19۔ فروری تک اکبر آباد آؤگے تو میں نے بی خط تمہارے نام لکھ کر لفافہ کررکھا ہے۔ آج انیسویں ہے، پرسوں اکیسویں کو لفاف ند آگرے کو روانہ ہوگا۔ با بوصاحب کو میں نے خط اس واسطے نہیں لکھا کہ جو پچھ لکھنا چاہیے تھا وہ خاتمہ اور اق اشعار پر لکھ دیا ہے۔ تم کو چاہیے کہ اون کی خدمت میں میر اسلام پہنچاؤ اور سفر کے انجام اور حصول مرام کی مبار کہا د دواور اور اق اشعار گزرا تو اور بیعرض کرو کہ جو عبارت خاتمے پر مرقوم ہے اور کو فورے پڑھیے اور اپنا دستور العمل گردا ہے۔ نہ بید کہ مرسری دیکھیے اور بھول جائے۔ بس تمام ہواوہ پیام کو دورا وہ اور اورا فوال جائے۔ بس تمام ہواوہ پیام کے جو با یوصاحب کی خدمت میں تھا۔ "

(20)

كسى ايك موضوع پرمضمون تخرير يجيخ

سوال تمبر 5:

- (۱) " قومی زبان ملک وقوم کے شخص کواُ جا گر کرتی ہے۔" ولائل سے ٹابت سیجیے۔
- (۲) " "فورٹ ولیم کالج کی او بی خدمات اوراُر دوتر جے کی روایت کے اُردوادب پرِاثرات۔" تفصیل ہے روشنی ڈالیے۔
 - (m) " دہشت گردی ہماری تہذیبی تربیت کی کمزوری کا نتیجہ ہے۔" تفصیل کے کھیے۔



Roll Number

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TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARK PART-I (MCQS): MAXIMUM 30 MINUTES PART-II MAXIMUM MARK								
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.	Q. No. 2. How has the role of forests been identified in mitigating climate change? What are the various mechanisms designed in this regard? Also describe various controversies attached to these mechanisms?							
Q. No. 3.	How the ecology of Arthropod vectors and their breeding habitats may be manipulated at different levels to introduce novel strategies for integrated pest management?							
Q. No. 4.	. How members of Hemichordata are different from Chordates? Highlight Phylogenetic significance of different classes of Hemichordata.							
Q. No. 5.	Explain in detail the digestion of carbohydrates and fats in various segments of the gastrointestinal tract in simple stomach animals.							
Q. No. 6.	One of the important functions of the hypothalamus is to link the nervous system to the endocrine system via the pituitary gland (hypophysis). Enlist the releasing factors/hormones of hypothalamus and explain their effects on target cells/tissue/glands.							
Q. No. 7.	Describe the synthesis, transport and fur of thyroid hormones is regulated in hype	•	nes. How the secretion	(20)				
Q. No. 8.	Write short notes on any FOUR of the f	following:	(5 each)	(20)				
	(a) Control of nematode parasit	es						
	(b) Neo-Darwinian theory	m www.czamon.com						
	(c) Adaptability pattern of man		on versus acvelent					
	(d) Advantages and disadvanta modification	ges of allosteric regulation	on versus covalent					
	(e) Concept of second messeng							
	(f) Adaptation of fishes in cold	and hot water						

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