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642

Medicine

	Question Booklet No.	
	(To be filled up by the candidate by blue/black ball-point pen)	
Roll No.		
Roll No. (W	rite the digits in words)	
1-14 pp 00 00 00	OMR Answer Sheet	
Day and Da	te(Signature of Invigilator)	••••

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admi-Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Shee shall not be provided.
- **4.** Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
- 7. Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- **9.** For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- **14.** If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages: 15

FOR ROUGH WORK

Research Entrance Test - 2014

No. of Questions: 50

Time: 2 Hours

Full Marks: 200

Note: (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

1.	Decrease in biodive	ersity in tropical cou	ntrie	s is mainly due t	o :	12
	(1) Urbanization	8	(2)	Deforestation		
	(3) Pollution		(4)	Soil erosion		
2.	Where does glycoly	ysis occur in a cell ?	8			
	(1) Chloroplast	(2) Mitochondria	(3)	Cytoplasm	(4)	Golgi body
3.	The process that a RNA is called as:	ccounts for transfer	rof	genetic informa	tion	from DNA to
	(1) Translocation	(2) Translation	(3)	Transformation	(4)	Transcription
4.	Leydig's cells prod	uce :				
	(1) Thyroxine		(2)	Growth hormon	ne	
	(3) Testosterone		(4)	Progesterone		
5.	A tumor suppresso	r gene which is know	wn a	s "Guardian of tl	ne ge	enome" is :
	(1) myc	(2) P ⁵³	(3)	Sr C	(4)	H-Ras
6.	Which is the function	on of interleukins?				As
	(1) Stimulation of	wound healing				
	(2) Treatment of in	fert ility				
	(3) Dissolving bloc	od clot				
	(4) Enhancement of	of action of immune	syste	m		
7.	Which of the follow	ring is not an anticoa	gula	ent?		*
	(1) Heparin		(2)	Protamine sulp	hate	
	(3) Warfarin		(4)	Hirudin		
8.	Which of the follow	ving is <i>not</i> a part of t	riple	response?		
	(1) White reaction	(2) Red reaction	(3)	Wheal	(4)	Flare

9.	Virus envelope is kr	nown as:					
The second secon	(1) Capsid	(2) Virion	(3)	Nucleoprotein	(4)	Core	
10.	Peptide synthesis inside a cell takes place in :						
5	(1) Mitochondria		(2)	Chloroplast			
	(3) Ribosomes	•	(4)	Chromoplast			
11.	Which vitamin is red	quired for collagen s	yntl	nesis?			
Si S	(1) Vitamin-A	(2) Vitamin-C	(3)	Vitamin-B	(4)	Vitamin-D	
12.	Zinc has role in:						
	(1) Immune functio	en -	(2)	Replacing Iron			
	(3) Insulin secretion	ı	(4)	both (2) & (3)			
13.	Long term diabetes	control is best monit	tored	d by :			
	(1) Serum glucose		(2)	Post prandial b	ood	glucose	
	(3) HBA1 _c		(4)	Proteinuria			
14.	Most cytokines are r	nade by several cell	type	es except :			
X	(1) IL-1	(2) IL-2	(3)	IL-8	(4)	IL-13	
15.	Potassium is essentia	al for:					
	(1) Heart	(2) Liver	(3)	Brain	(4)	Eyes	
16.	Iron in blood is trans	sported by binding	to:				
	(1) Apoferritin		(2)	Ceruloplasmin			
	(3) Albumin		(4)	Transferrin			
17.	Most common cause	of chronic kidney o	lisea	se in elderly :			
	(1) Diabetes mellitu	ts	(2)	Hypertension			
	(3) Analgesic nephr	copathy	(4)	Pyelonephritis			

18.	Normal Sodium concentration in plasma is:				
	(1) 120-130 mEq/L	(2) 135-145 mEq/L			
	(3) 145-160 mEq/L	(4) 190-195 mEq/L			
19.	Most common cause of dementia :	,			
	(1) Alzheimer's disease	(2) Pick's disease			
	(3) Multi-cerebral infarct	(4) Parkinsonism			
20.	Which helminth is commonly resp	onsible for anaemia ?			
	(1) Wuchereria bancrofti	(2) Taenia solium			
	(3) Ancylostoma duodenale	(4) Ascaris			
21.	Most common bacteria responsible	e for UTI in elderly ?			
	(1) Streptococcus	(2) Proteus mirabilis			
	(3) E.Coli	(4) Klebsiella			
22.	Tissue plasminogen activator(tPA) is used as :			
	(1) Anticoagulant	(2) Anti thrombolytic			
	(3) Anti anginal	(4) Anti ischemic			
23.	Glucagon like peptide-1 (GLP-1)a	re secreted from :			
	(1) α -cells of pancreas	(2) β -cells of pancreas			
	(3) K-cells of Intestine	(4) C-cells of thyroid			
24.	Anti CD-20 monoclonal antibodie	s are used in the treatment of :			
	(1) Renal cell carcinoma	(2) Sarcoma			
	(3) B cell lymphoma	(4) Multiple myeloma			
25.	Which of the following beta-block	ser is safe in pregnancy?			
	(1) Carvedilol	(2) Labetalol			
	(3) Nebivolol	(4) Propranolol			

	?6.	SIA	ADH is state of :					
		(1)	Euvolumic hype	onatremia		(2)	Dilutional hyponatremia	
		(3)	Hypovolumic h	yponatremia		(4)	Hyperosmolar hyponatremia	
******	27.	On	e of the clinical s	ign of Left ve	ntricula	ar fa	ailure is :	
1		(1)	Pulsus bisferien	s		(2)	Pulsus bigeminus	
*	e e	(3)	Pulsus paradox	sus		(4)	Pulsus alternans	
	28.	Wh	ich of the follow	ing is Clinica	l detern	nina	ant of brain death ?	
10	8.	(1)	Central cyanosis	5				
		(2)	Absence of hear	t sounds				
9) (1)		(3)	Dilated and fixe	d pupil on lig	ght resp	ons	se	
		(4)	Absence of caro	tid pulse				
8) E	2 9.	Pro	longed diuretic t	herapy can le	ead to:			
		(1)	Metabolic alkalo	osis		(2)	Metabolic acidosis	
90		(3)	Respiratory alka	ilosis		(4)	Respiratory acidosis	
	3 0.	One	e of the treatmen	t of primary p	oulmon	ary	hypertension is:	
		(1)	Nitroprusside			(2)	Diazoxide	
		(3)	Endotheline rece	eptor blocker	s	(4)	Beta blockers	
	31.	Neı	atropenic enteroc	colitis is one c	of the co	mp	olications of:	
0		(1)	Crohn's disease			(2)	Cancer chemotherapy	
		(3)	AIDS			(4)	Acute bacillary dysentery	
8)	3 2.	Wh	ich of the followi	ng is structu	ally lar	gest	t immunóglobulin ?	
		(1)	IgC	(2) IgA		(3)	lgD (4) lgM	
8	3 3.	Tra	nsfusion & drug	induced reac	tions is	:		
	*	(1)	Type-I hypersen	sitivity reacti	ion	(2)	Type-II hypersensitivit reaction	
		(3)	Type-III hyperse	ensitivity reac	ction	(4)	Type-IV hypersensitivi v reaction	
3	ET/14	1/Tes	st B 642		(5)		P. T. O	0

34.	Which of the following is not true for Immunization against disease?						
ii.	(1)	(1) Live Vaccine can be given to pregnant women.					
5 8	(2)	(2) Contraindicated in Asthma					
¥	(3)	(3) Contraindicated in premature baby					
	(4)	Contraindicated in active tuberculosis				*	
35 .	An	ntithrombin is a protein and is produced	by:				
	(1)) Liver (2)	Lui	ng			
	(3)) Kidney (4)	Bor	ne marrow	7		
36.		ome but not all HIV infected patien mphad enopathy (PGL). PGL is defined a		evelop pe	ersistent	gener	alized
	(1)) Lymph node >1 cm in diameter in to months.	wo a	natomical	distinct	sites	for >3
	(2)	Lymph node >1 cm in diameter in to months.	wo a	natomical	distinct	sites	for >6
	(3)	Lymph node >3 cm in diameter in to months.	wo a	natomical	distinct	sites	for >3
	(4)) Lymph node >1 cm in diameter in to month.	wo a	natomical	distinct	sites	for >1
37.	Cai	auses of acquired proximal myopathy inc	ludes	s the follov	wing EXC	EPT:	
				amin-E	. •		
	(3)	Statins (4)	Art	tesunate		± =	
38.		iberculosis is most important opportuni llowing is <i>true</i> about tuberculosis (TB) in				hich	of the
	(1)	Incidence of TB reflects background pre	evale	nce in con	nmunity	*	
	(2)	TB can occur at any stage of HIV					
	(3)	TB is always a new infection				8	
	(4)	Beth (1) & (2)					Ma.
ET/14	l/Te	est B/642 (6)					

- **39.** In Liposomal based drug delivery system, liposome is used because of which of the following its unique property?
 - (1) Encapsulation of hydrophobic drugs
 - (2) Encapsulation of hydrophilic drugs
 - (3) Encapsulation of both hydrophobic & hydrophilic drugs
 - (4) Encapsulation of inert drugs
- **40.** Which of the following is not the cause of hyperprolactemia?
 - (1) Baby crying

(2) Hyperthyroidism

(3) PCOD

(4) Renal failure

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

- 1. Application of Quantum dots.
- **2.** Write *three* functions of human kidney.
- **3.** Enumerate various steps of Polymerase Chain Reaction (PCR).
- **4.** Mention *three* infections which can be transmitted by accidental finger prick while drawing blood sample.
- **5.** Enumerate the component of tumour lysis syndrome (TLS).
- **6.** Enumerate difference between Stable & Unstable Angina.
- 7. Enumerate three X linked disorders.
- 8. Enumerate components of Glasgow Coma Scale.
- **9.** Define XDR -tuberculosis.
- 10. What are clinical trial phases, describe?

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FOR ROUGH WORK