RET/13/Test B

655

Pharmacology

			*************		(Signature of Invigilator)
Day and Da	te	*************			
Serial No. o	f OMR Ans	wer Sheet	************	************	***************************************
Roll No. (W	rite the digi	ts in words)			***************************************
noii ito.					
Roll No.				T	
	(To be	filled up by th	ne candida	ite by blu e	ue/black ball-point pen)
			81	Quest	stion Booklet No

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 Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet 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

SALL NO.

FOR ROUGH WORK

Research Entrance Test - 2013

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.	The process of copying genetic informat				
	(1) Translation (2) Replication	(3)	Transcription	(4)	Ligation
2.	Separation and isolation of DNA is carri	ied b	у		
	(1) Gel electrophoresis	(2)	Polymerase cha	iin re	action
	(3) Bioreactors	(4)	Cloning vector	s	
3.	Which is not a sexually transmitted dise	ease			
	(1) HIV (2) Hepatitis B		Listeriosis	(4)	Chlamydiasis
4.	Barr body is an		W.		
	(1) Autosome	(2)	X chromosome	•	
	(3) Y chromosome	(4)	Mutated chron	nosor	ne
5.	Which is not a connective tissue				
	(1) Bone	(2)	Cartilage		
	(3) Adipose tissue	(4)	Muscular tissu	e	
6.	Antibodies are responsible for				
	(1) Cell mediated immunity		Humoral imm	_	*
	(3) Innate immunity	(4)	Autoimmunit	y	
7.	Hair is made of			0.00	_
	(1) Elastin (2) Fibrin	(3)	Keratin	(4)	Reticulin
8.	Sympathetic nervous system has			1200024	
	(1) Craniosacral flow		Cerebrocortic		W
	(3) Thoracolumbar flow	(4)	Diencephalic i	low	
9.				44	.
	(1) Liver (2) Kidney	(3) Spleen	(4)	Brain
10.	(villa)				
	(1) Left ventricle and aorta		*		
	(2) Right ventricle and pulmonary tru	ınk			
	(3) Left atrium and left ventricle		***		
	(4) Right atrium and right ventricle				
RET	/13/Test B/655 (2)			

11.	Richest source of se	oluble dietary fiber	is:	of fil
	(1) ground nut	(2) green gram	(3) red gram	(4) black gram
12.	Fresh fruit are poor	r source of :	2	W
	(1) minerals	(2) vitamin E	(3) antioxidants	(4) fiber
13.	Which is following	is useful to treat at	naemia :	
	(1) vitamin A	(2) vitamin B	(3) vitamin D	(4) vitamin K
14.	Kidney failure adve	ersely affects metab	polism of :	E .
	(1) vitamin A	(2) vitamin B	(3) vitamin C	(4) vitamin D
15.	Reduced consumpt	ion of salt is most b	eneficial in :	
	(1) diabetes	(2) hypertension	(3) cancer	(4) epilepsy
16.	Heroin is made from	n :		8
	(1) Dhatura	and the second s	(2) Fermented star	rch
	(3) Marijuahna		(4) Poppy	
17.	Absorption of orally	given iron is incre	eased by :	
	(1) food	(2) lime juice	(3) soda bi carb	(4) plenty of water
18.	Smoking causes inci	reased cancer risk r	nainly by :	
	(1) carbon nano par	rticles	(2) carbon monoxi	de
	(3) oxadised hydro	carbons	(4) nicotine	
19.	Chronic alcohol con	sumption is major	cause of :	
	(1) heart failure		(2) liver failure	200
	(3) kidney failure		(4) bone marrow fa	ailure
RET/1	3/Test B/655	(3)		P. T. O.

20.	Prolonged broad spectrum antibio	otics may commonly cause:
	(1) vitamin A deficiency	(2) vitamin B deficiency
	(3) vitamin C deficiency	(4) black gram
		to the second se
21.	Sodium bicarbonate is best used in	n medicine as :
	(1) antacid	(2) oral disinfectant
	(3) alkalinizing agent	(4) chelating agent
22.	Proper mode of orally administer	ing hydrochloric acid is by :
	(1) gastric tube	(2) oral solution
	(3) capsule	(4) enteric coated formulation
23.	Popular constituent for mouth wa	ash is :
	(1) boric acid	(2) providone iodine
	(3) chlorheximide	(4) chlorocresol
24.	Pharmacy is better described as :	e .
	(1) drug store	(2) drug company
	(3) drug development science	(4) drug formulation science
25.	Pharmacology is study of:	z 3
	(1) therapeutic agents	
	(2) interaction of agents with livi	ing system
	(3) drug development	
	(4) regulating use of bioactive ag	gents
RET/	13/Test B/655	(4)

26.	M	ost drug require small quantiti	es beca	ause	they affect :	
***	and the	nervous system	#R	er-vernan	endocrine systen	
	(3)	specific receptor	S	(4)	genes	
27.	So	me drug effects are not reversi	ble bed	cause	e of :	
	(1)	ionic bonding with target		(2)	covalent bonding will target	
	(3)	no metabolism		(4)	no excretion	
28.	Re	versible drug effect is best exer	mplifie	d in	:	
	(1)	sclerosing agents		(2)	anti infective agents	
	(3)	anti cancer agents		(4)	anti epileptic agents	
29.	Dri	ag induced heart failure will n	ot caus	se:		
	(1)	swelling of feet	•	(2)	increasing breathing rate	
	(3)	increased blood pressure		(4)	increased heart rate	
30.	Αcι	ite alcohol consumption essen	tially c	ause	es:	
	(1)	structural change of central ne	ervous	syst	em	
	(2)	stimulation of central nervous	syste	m		
	(3)	depression of central nervous	systen	n		
	(4)	no effect on central nervous sy	ystem			**
31.	Cor	nmon diuretics increase urine	output	prin	marily by :	20
	(1)	increasing kidney blood flow		(2)	increasing water filtration	
	(3)	increasing sodium excretion		(4)	increasing motility of urinary tract	
32.	Org	anophosphate pesticides can c	ause d	eath	by:	
×	(1)	excess stimulation of heart		(2)	excess adrenocortical secretion	
	(3)	excess cholinergic stimulation		(4)	excess burning of body fuel	¥3
ET/1:	3/Te	st B/655	(5)		P. T. O.	

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33.	Stressful situations cause increased s	weating mediated by
	(1) insulin	(2) adrenalin
	(3) acetylcholine	(4) adreno-corhcostero
24	Anti-inflammatory effect of drug ma	ay best be seen in change of
34.		(2) blood urea level
	(1) body weight	(4) red blood cell cour
	(3) erythrocyte sedimentation rate	(4) Ted blood cell com
35.	Glucose-6 phosphate deficiency inco	rease risk of drug induced :
	(1) anaphylaxis	(2) diarrhea
	(3) respiratory failure	(4) haemolysis
36.	Activation of chloride channel med	iates effect of :
-	(1) adrenaline	(2) acetylcholine
	(3) gama amino butyrate	(4) glutamate
37.	Very harmful to cardiovascular hea	lth is :
· · ·	(1) fish oil	(2) saturated fat
	(3) even small amount of alcohol	(4) potato consumption
38.	Match method of separation with i	ts principle of separation :
	P. Filtration	1. Specific gravity
	Q. Ultrafiltration	2. Electric charge
	R. Centrifugation	3. Molecular size
	S. Ion exchanges	4. Particle size
	(1) P-1, Q-2, R-4, S-3	(2) P-4, Q-3, R-1, S-2
	(3) P-4, Q-1, R-3, S-2	(4) P-1, Q-3, R-2, S-4
RET	/13/Test B/655	(6)

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- 39. By definition homologous genes are genes that:
 - (1) Share a common function
 - (2) Share a common evolutionary ancestor
 - (3) Are expressed under similar condition
 - (4) Have at least 50% of nucleotide similarity
- 40. The lengths of the branches of phylogenetic tree constructed from DNA sequences data indicate:
 - (1) The length of time since the organisms diverged
 - (2) The number of synonymous changes between the genes
 - (3) The degree of difference between the genes represented by the nodes
 - (4) None of the above

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. What does body do to ingested drugs?
- 2. Give chemical, generic and proprietary names of any single drug.
- 3. How contraceptive pills prevent pregnancy?
- 4. How may standard does of any drug is determined?
- 5. State chemical nature and use of two plant derived drugs.
- 6. State how stress can adversely affect body health.
- 7. Why young baby is prone to toxicity of drugs?
- 8. Write in brief about RT-PCR.
- 9. Write in brief about gel electrophoresis.
- 10. Write in brief about column chromatography.

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FOR ROUGH WORK