# RET/14/Test B

655

**Pharmacology** 

			Question Booklet No
	(To be filled u	ip by the candida	ite by blue/black ball-point pen)
Roll No.			
Roll No. (Wr	te the digits in t	words)	***************************************
Serial No. of	OMR Answer S	heet	
Day and Dat		**************************************	(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 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

### FOR ROUGH WORK

## Research Entrance Test - 2014

No. of Questions: 50

These : 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.

And a second second	the work of the same of the sa	-					
1.	Decrease in biodiv	ersity	in tropical cou	ntries	is mainly due to	) :	
	(1) Urbanization						Soil erosion
2.	Where does glycol	ysis o	ccur in a cell?	104			
100	(1) Chioroplast	(2)	Mitochondria	(3)	Cytoplasm	(4)	Golgibody
8.	The process that as is called as:	ceouni	s for transfer o	d gen	etic information	fron	n DNA to RN
11 36	(1) Translocation	(2)	Translation	(3)	Transformation	(4)	Transcription
4.	Leydig's cells prod	bace :			8		
	(1) Thyrencine			(2)	Growth hormon	ne	
	(3) Testpeterone		25	(4)	Progesterone		
<b>5.</b>	A tuiner suppress	or gen	e which is kno	wn as	s "Guardian of th	ne ge	enome" is :
	(1) myc	(2)	P <sup>53</sup>	(3)	Sr C	(4)	H-Ras
6.	Which is the funct	ion of	interleukins?				
	(3) Stimulation of	wou	nd healing				
(F)	(2) Treatment of i	nferti	lity				
	(3) Dissolving blo	ood cla					
	(6) Enhancement	of act	ion of impress	: syste	m		
7.	Which of the follo	wing	is not an ambo	oeguk	ant?		
	(1) Heparin			(2)	Protamine sulp	hati	:
	(3) Warfarin	:		(4)	Hirudin		
8.	Which of the follo	wing	is not a part of	ftriple	e response?		1.0
	(1) White reactio	n (2)	Red reaction	(3)	Wheal	(4)	Flare
9.	Virus envelope is	know	m as:				
	(1) Capsid	(2)	Virion	(3)	Nucleoprotein	(4)	Core
10.	Peptide synthesis	insid	e a cell takes p	lace ir	<b>1</b> :		
	(1) Mitochondria	ľ		(2)	Chloroplast		
	(3) Ribosomes			(4)	Chromoplast		超
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11.	Acute dystonia is due to:		
	(1) Acute acetylcholine antagonism	(2)	Acute dopamine antagonism
12	(3) Chronic acetylcholine antagonism	(4)	Chronic dopamine antagonism
12.	Long term effects of antidepressant dru	ugs ir	nclude all EXCEPT :
r <b>u</b> r	(1) Increased receptor G protein coupl	ing	
	(2) Increase neurogenesis in Hippocan	npus	
,	(3) Increased induction of neutrotroph	nic fa	ctors
	(4) Increased neurogenesis in Pons		
13.	Hallucination is:		
	(1) Disorder of perception	(2)	Disorder of thought form
	(3) Disorder of thought content	(4)	Disorder of thought process
14.	Which of the following is not a part of	4 A's	of Schizophrenia ?
	(1) Autism	(2)	Affect
	(3) Anhedonia	(4)	Ambivalence
15.	Adverse effects of Lithium include all I	EXCE	IPT:
	(1) Tremor	(2)	Hyperthyroidism
	(3) Renal dysfunction	(4)	Dysarrythmias
16.	Which of the following is not an indica	tion (	of anti-depressants ?
	(1) Alcohol toxicity	(2)	Pain disorder
8.	(3) Premenstrual dysphoria	(4)	Smoking cessation
17.	Which one of the drugs is not used in d	liseas	ses of bone mineral homeostasis?
	(1) Teriparatide	(2)	Raloxifene
	(3) Cinacalcet	(4)	Tamoxifene
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	(1) Helix-turn-helix	(2) Zinc finger
	1873a 1274a 1774 1775 47 1777 34	
	(3) Helix-loo-helix	(4) Leucine zipper
19.	Ulipristal is:	
	(1) Selective estrogen receptor mo	dulator
	(2) Selective androgen receptor mo	dulator
	(3) Selective progesterone receptor	modulator
	(4) Estrogen	
20.	Which of the following action is not	attributed to Morphine?
	(1) Mydriasis	(2) Biliary colic
	(3) Respiratory depression	(4) Truncal rigidity
21.	Which is not a drug effect on heart	?
	(1) Nootropic	(2) Proarrhythmic
	(3) Bathmotropic	(4) Ionotroppic
22.	Which of the following poisons can	stop heart as an early effect ?.
	(1) Strychnine	(2) Amanita muscaria
	(3) Cobra venom	(4) Belladonna
23.	The ion most important in determin	ning the force of cardiac contraction is :
	(1) Sodium (2) Potassium	(3) Calcium (4) Magnesium
24.	One of the following is useful in tre	ating a disease of heart :
	(1) Tecomella undulata	(2) Brahmi
	(3) Anona squamosa	(4) Digitalis purpurea

25.	Raised blood pressure can be lowered by all EXCEPT:			
6	(1) Raising sympath	netic activity	(2) Decreasing sym	npathetic activity
•	(3) Raising parasyn	npathetic activity	(4) Decreasing care	diac activity
26.	The effect of ordinar	y diuretic drug decre	eases on continuation	due to all EXCEPT :
	(1) Decreased blood	d volume	(2) Decreased blood	dsodium
	(3) Reflex adjustme	ents	(4) Insensitivity of 1	receptors
27.	Penile ejaculation is	a function of:		
	(1) Parasympatheti	c system	(2) Sympathetic sy	stem
	(3) Substance P		(4) Serotonergic sy	rstem
28.	When responsivene response is said to b		shes rapidly after adı	ministration, the
	(1) Hyperactive	(2) Variability	(3) Tachyphylaxis	(4) Idiosyncratic
29.	Number of half life body is:	considered adequa	te for total eliminatio	on of drugs from the
	(1) 3	(2) 5	(3) 7	(4) 9
<b>3</b> 0.	Which of the drug	is microsomal enzyr	me inhibitor ?	
	(1) Phenytoin	(2) Rifapin	(3) Phenobarbital	(4) Cimetidine
31.	The risk of bleeding because aspirin:	g in patients receivi	ng heparin is increas	ed by aspirin
	(1) Inhibits hepari	n anticoagulant acti	vity	
	(2) Displaces heparin from plasma protein-binding sites			
	(3) Inhibits platele	et function		
gii	(4) Inhibits prothr	ombin formation		
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32.	Very high dose of the following vitamins can cause toxicity in humans:				
	(1) Folic acid (2) Ascorbic acid	d (3) Cynocobalmin (4) Retinoic acid			
33.	Which one of the following drug is m patient with diabetic gastroparesis?	nost likely to improve gastric emptying in a			
	(1) Loperamide	(2) Cisapride			
	(3) Magnesium hydroxide	(4) Sucralfate			
34.	Which of the following statement is r infection:	not true for the treatment of H pylori			
	(1) Metronidazole 400 mg TDS, on TDS	neprazole 20 mg BD, amoxycillin 500 mg			
	(2) Tinidazole 600 mg BD, omeprazo	ole 20 mg BD, clarithromycin 500 mg TDS			
		dazole 400 mg TDS, Tetracycline 500 mg			
	(4) Tinidazole 600 mg BD, omeprazo Colloidal zinc	ole 20 mg BD, ciprofloxacin 500 mg BD and			
35.	Which statement applies to iodine co	ntaining disinfectants?			
	(1) They act by protein denaturation	and precipitation			
	(2) They act by oxidizing essential er	nzymes			
	(3) They are bactericidal and act on t	ubercular bacilli, viruses, and fungi			
	(4) Active iodine is released from iod	lophores most effectively at high pH			
36.	Vasodilatation produced by high doses	of histamine can be antagonized fully by:			
	(1) H <sub>1</sub> antagonists	(2) H <sub>2</sub> antagonists			
	(3) H <sub>3</sub> antagonists	(4) H <sub>1</sub> and H <sub>2</sub> antagonists			
37.	Which of the following organisms deve	elop resistance against antibiotics quickly?			
	(1) Treponoma pellidum	(2) Meningococcus			
	(3) Escherichia coli	(4) Streptomyces pyogenes			
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	infections (	
	(1) Nalidixic acid (2) Ofloxacin	(3) Pefloxacin (4) Lomefloxacin
<b>39</b> .	Mechanism of action of Zidovudine is:	
	(1) Protease inhibition	(2) Reverse transcriptase inhibition
	(3) Integrase inhibition	(4) Antisense oligonucleotide
40.	Anti-metabolites frequently act to kill co	ells in which phase of the cell cycle?
	(1) M Phase (mitotic phase)	(2) G <sub>1</sub> Phase
7	(3) S phase (DNA synthetic phase)	(4) G <sub>2</sub> phase
Attem 16 ma	pt any five questions. Write answer in orks. Answer each question on separate p	1 150-200 words. Each question carries age, after writing Question Number.
1.	What is the principle of Radioimmunoa	ssay?
2.	Why multiple drug therapy is prescrib drugs used in the treatment of pulmona	ed in tuberculosis? Write the 1st line of ary tuberculosis.
3.	Name fat soluble vitamins.	
4.	Name the drugs which reduce acid secu	retion.
5.	Name anticoagulants and their mechan	ism of action.
6.	Name some antipsychotic drugs and th	eir important side effects.
7.	Name the drugs used in acute gout.	
8.	Enumerate the effect of atropine poisor	ning on cardiovascular system.

Define a drug comprehensively stating examples of each component.

(7)

State the effects of adrenaline on cardiovascular system.

38. Which of the following quinolone antimicrobial agent is not useful in systemic

9.

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# FOR ROUGH WORK