RET/15/TEST-B

(42)

Question Booklet No.

642 Medicine

(To	be filled up	by the cand	date by	nue/blac	ek ball p	oint pei	11)	
Roll No.								
Roll No. (Write tl								
Serial No. of OM	R Answer Sh	eet					•••••••	
Day and Date								
						(Signa	ture of In	vigilator

INSTRUCTIONS TO CANDIDATES

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

- 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 fesh 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 change 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.
- 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 pages 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: 16

ROUGH WORK

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No. of Questions: 50

ne : :	2 H	ours		Full Marks: 200
e: (1	L)	This Question Booklet co followed by 10 Short Answ	ontain er Que	s 40 Multiple Choice Questions estions.
(2	2)	marks. 1 (One) mark will Zero mark will be awarded than one alternative answ	be ded for ea ers of	can. Each MCQ carries 3 (Three) ducted for each incorrect answer, ch unattempted question. If more MCQs seem to be approximate to osest one.
(3	:)	(Sixteen) marks and shoul 5 (Five) pages attached with	d be a th this	estions. Each question carries 16 nswered in 150-200 words. Blank booklet shall only be used for the on separate page, after writing
Wh	iich	of the following is pluming	.	_11
			(2)	Sertoli cells
(3)	M	emory t cells	(4)	Langerhans cells
Wh	ich	of the following is NOT a l	ymph	oid organ
(1)				Tonsils
(3)	Th	nyroid	(4)	Spleen
Enz	yme	es for kreb cycle are locate	ed in	
(1)				Cytoplasm
(3)			586 6	Nucleus
,			(4)	Nucleus
Whi	ich d	of the following is a non-co	mmıı	nicable disease
(1)	HI	V		Tuberculosis
(3)	Me	easles		Tetanus
	(3) Wh (1) (3) Enz (1) (3) Whi (1) (1)	(a) (b) (c) (c) (c) (d) (d) (d) (e) (e) (e) (f) (g) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g	(2) Attempt as many MCQs a marks. 1 (One) mark will Zero mark will be awarded than one alternative answ the correct answer, choose (3) Answer only 5 Short Answ (Sixteen) marks and shoul 5 (Five) pages attached with purpose. Answer each question No. Which of the following is pluripod (1) Stem cell (3) Memory t cells Which of the following is NOT a 1 (1) Lympnodes (3) Thyroid Enzymes for kreb cycle are located (1) Mitochondria (3) Peroxisomes Which of the following is a non continuous the following is a non continuous that the following is a non-continuous that the following is a non-continuous that the following is a non-continuous	This Question Booklet contains followed by 10 Short Answer Question Booklet as you marks. 1 (One) mark will be december 2ero mark will be awarded for earthan one alternative answers of the correct answer, choose the clease (Sixteen) marks and should be at 5 (Five) pages attached with this purpose. Answer each question Question No. Which of the following is pluripotent confidence (1) Stem cell (2) (3) Memory t cells (4) Which of the following is NOT a lymphology (3) Thyroid (4) Enzymes for kreb cycle are located in (1) Mitochondria (2) (3) Peroxisomes (4) Which of the following is a non communication of the following is a non communication.

05.	Which of the following is NOT a part of immune system of the body?				
	(1)	Langerhans cells	(2)	Helper T cells	
	(3)	Histiocytes	(4)	Reticulocytes	
06.	Ovul	ation occurs at			
	(1)	5th day of menstrual cycle			
	(2)	14th day of menstrual cycle			
	(3)	21st day of menstrual cycle			
	(4)	28 th day of menstrual cycle			
07	Δ	ount of growth hormone secret	ion r	each its neak by	
07.		8 am	(2)	8 pm	
	(1)		(4)	12 pm	
	(3)	12 am	(')	12 p	
08.	Whi	ch of the following is false?			
	(1)	Bones are attached to other l	ones	s by means of tendon	
	(2)	1 1 - by many ligaments			
	(3) Bones are joined to other bones by mean of articular cartilage				
	(4)	Bones are joint to each other	by n	nean of fibrous tissuc	
				is amount in	
09.		ulators of thirst and hunger co		Midbrain	
	(1)	Medulla	(2)	Cortex	
	(3)	Hypothalamus	(4)	Cortex	
10	Whi	ich of the following is NOT inc	luded	l in the stages of embryological	
10.		elopment?			
	(1)	Insemination	(2)	Gastrulation	
	(3)	Blastula formation	(4)	Morula formation	
		i defendo	of turk	perculosis against which drug?	
11.			(2)	perculosis against which drug? Pyrazinamide	
	(1)	Rifampicin	(4)	Ethambutol	
	(3)	Isoniazid	()	1301300000	

12	. Pro	Protein is purified using ammonium sulfate by : 1) Salting out				
	(2)					
	(3)		i i y			
	(4)	100000 1				
		one exercision				
13.	Ge: chr	ne for major histocompatibi comosome?	lity	complex is located on which		
	(1)	Chromosome 13	(2)	Chromosome 11		
	(3)	Chromosome 6	(4)	Chromosome 16		
			()			
14.	Nes	sted case control study is a typ	e of :			
	(1)	Retrospective study	(2)			
	(3)	Cross sectional study	(4)	9 		
15.	Wh	ich co enzyme is responsible fo	or car	boxylation reaction?		
	(1)	Biotin	(2)	NADH		
	(3)	FAD	(4)	Thiamine pyrophosphate		
1.	m.			USSERS 277. — ————————————————————————————————		
16.	The	best marker to diagnose thyro	oid re	lated disorder :		
	(1)	T3	(2)	T4		
	(3)	TSH	(4)	Thyroglobulin		
17	Mos	t common to the contract of th	82			
11.	(1)	t common cause of hyperpara	thyro			
	2002001000	Iatrogenic Parather 11 1	(2)	Medullary carcinoma		
	(3)	Parathyroid adenoma	(4)	Parathyroid hyperplasia		
18.	Whi	ch of the following is Not a tun				
	(1)	Tartrate-resistant acid about	nour	marker ?		
	(2)	Tartrate-resistant acid phospi Carcinoembryonic antigen	natas	se		
	(3)	Alfa fetoprotein				
	(4)	Alfa-1 antitrypsin				
	, ,	- ma i antid ypsili				

19.	Whic	ch type diabetes is HLA associ	ated 1	?
	(1)	Type I diabetes	(2)	Type II diabetes
	(3)	Malnutrition related diabetes	(4)	Pregnancy related diabetes
20.	Whic	ch is not carcinogenic?		
	(1)	Benzpyrine	(2)	Aniline dye
	(3)	Vitamin A	(4)	Aflatoxin B1
21.	An e	xample of a tumour suppress	or gei	ne is:
	(1)	myc	(2)	fos
	(3)	ras	(4)	p53
22.	Whi	ch of the following is an occup	ation	al discase?
	(1)	Malaria	(2)	Diabetes
	(3)	Hypothyroidism	(4)	Pneumoconiosis
23.	Ren	in is secreted from the cells of	`-	
	(1)	Liver	(2)	Kidney
	(3)	Intestines	(4)	Bones
24.	Wea	aring of gloves is a part of :		
	(1)	Disinfection	(2)	Sanitation
	(3)	Operation	(4)	Universal precautions
25.	DO	TS program is related with :		
	(1)	HIV	(2)	Tuberculosis
	(3)	Leprosy	(4)	Polio
26	. Sm	allest cell organelle is :		
012-001999	(1)	Vacuole	(2)	
	(3)	Golgi body	(4)	Cytoplasm

27		Trypsinogen an inactive enzyme secreted by the pancreas is activated by :			
	(1)	Enterokinase	(2)	Pepsin of stomach	
	(3)	Bile	(4)	Chymotrypsin	
28.	. Ох	ygen dissociation curve is :			
	(1)	Sigmoid	(2)	Straight	
	(3)	Parabola	(4)	Slope	
29.	The	e respiratory centre in brain v	vhich (controls respiration ?	
	(1)	Hypothalamus	(2)	Cerebellum	
	(3)	Medulla oblongata	(4)	Spinal cord	
30.	Blo	od circulation that starts in c	apillaı	ries and end in capillaries :	
	(1)	Hepatic circulation	(2)	Portal circulation	
	(3)	Cardiac circulation	(4)	Pulmonary circulation	
31.	All a	are screening test for Down sy	yndroi	ne except -	
	(1)	Low maternal serum α - feto	protei	n	
	(2)	Elevated human chorionic g	onado	tropin	
	(3)	Low unconjugated estriol.			
	(4)	Progesterone			
32.	(1)	are the Turner Syndrome ger 45,X 45,X/47,XXX	otype (2) (4)	s except : 45,X/46,XX 47,XXY	
			6.1	11,1411	

33.	Assi	ssisted reproductive technology, IVF involves transfer of :			
	(1)	Zygote into the uterus			
	(2)	Embryo with 16 blastomeres into fallopian tube			
	(3)	Ovum into the fallopian tube			
	(4)	Zygote into fallopian tube			
			1 1		
34.	Wuc	chereria bancrofti is transmitte		: Tse-tse fly	
	(1)	Sand fly	(2)	TOTAL STATE OF THE	
	(3)	Culex	(4)	Anophelese mosquitoes	
25	The	first human hormone produce	d by	recombinant DNA technology.	
35.	(1)	Insulin	(2)	Thyroxin	
	(3)	Estrogen	(4)	Prolactin	
	2. (2.)	: a	3 E		
36.	Ana	dysis of chromosomal DNA	asing	the southern hybridization	
	tech	nnique does not usc			
	(1)	Autoradiography	(2)	PCR	
	(3)	Electrophoresis	(4)	Blotting	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
37.	HIV	principally infects and reduce		T-helper cells	
	(1)	All T cells	(2)	Both B and T cells	
	(3)	B cells only	(4)	Both B and 1 cens	
20	Ha	iversal donors are :			
30.		O Rh +	(2)	AB Rh +	
	(1)	O Rh -	(4)	AB Rh -	
	(3)	O IOI			
39	. Pac	cemaker of the heart is:			
	(1)	SA node	(2)	AV node	
	(3)	Bundle of His	(4)	Purkinje fibre	
	(-)				

- **40.** Hypothalamus of the brain is not involved in this function :
 - (1) Sleep-wake cycle
 - (2) Osmoregulation
 - (3) Temperature control
 - (4) Accuracy of muscular movement

9 P.T.O.

Short Answer Questions

Note: 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.

- 01. Proto-oncogene
- 02. Complications of diabetes
- 03. Life cycle of malaria
- 04. Classify the lymphocytes of blood and mention their key functions.
- 05. Mciosis I
- **06.** What are the components of metabolic syndrome?
- 07. Enumerate the differences between DNA and RNA.
- 08. Interferons
- 09. Western blotting
- 10. Microchip Electrophoresis.

100

Question	No.
Ancation	1101

Question	No.
Question	110.

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली-काली बाल-प्वाइंट पेन से ही लिखें)

- प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण 1. प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में 2. न लायें।
- उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। 3. केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें। 4.
- उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्घारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर 5. लिखें।
- ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमित 6.
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित 7. साधन का प्रयोग माना जायेगा।
- प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये 8. निर्देशों के अनुसार पेन से गाड़ा करना है।
- प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने 9. पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- ध्यान दें कि एक बार स्थाही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य 10. अंक दिये जायेंगे।
- रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का 11. प्रयोग करें।
- परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें। 12.
- परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमित नहीं होगी। 13.
- यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित 14. दंड का/की, भागी होगा/होगी।