Set No.: 1

RET/15/TEST-B



Question Booklet No.

646 Neurology

(To	be filled up b	y the candid	use by blue	e/black ba	ll point pen,)	
Roll No.							
Roll No. (Write th	e digits in wo	rds)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Serial No. of OMI	R Answer She	et					222
Day and Date							
					(Signat	ure of Invigil	ator)

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

No. of Questions: 50

Tim	ie : 2	Hours		Full Marks: 200
Not	e: (1	This Question Booklet co followed by 10 Short Answe		s 40 Multiple Choice Questions estions.
	(2	marks. 1 (One) mark will Zero mark will be awarded	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 should 5 (Five) pages attached with	d be ar h this	estions. Each question carries 16 aswered in 150-200 words. Blank booklet shall only be used for the on separate page, after writing
01.	Wh	ich of the following is pluripot	ent c	ell
	(1)	Stem cell	(2)	Sertoli cells
	(3)	Memory t cells	(4)	Langerhans cells
02.	Whi	ich of the following is NOT a l	ymph	oid organ
	(1)	Lympnodes	(2)	Tonsils
	(3)	Thyroid	(4)	Spleen
03.	Enz	ymes for kreb cycle are locate	d in	
	(1)	Mitochondria	(2)	Cytoplasm
	(3)	Peroxisomes	(4)	Nucleus
04.	Whi	ch of the following is a non co	mmıı	nicable disease
	(1)	HIV	(2)	Tuberculosis
	(3)	Measles		Tetanus

(4) Tetanus

	(3)	Histiocytes	(4)	Reticulocytes		
06.	Ovu	lation occurs at				
	(1)	5th day of menstrual cycle				
	(2)	14th day of menstrual cycle				
	(3)	21st day of menstrual cycle				
	(4)	28th day of menstrual cycle				
07.	Amo	ount of growth hormone secret	ion r	each its peak by		
	(1)	8 am	(2)	8 pm		
	(3)	12 am	(4)	12 pm		
08.	Whi	ch of the following is false?				
	(1)	(1) Bones are attached to other bones by means of tendon				
	(2)	1 I I I I I I I I I I I I I I I I I I I				
	(3)	-f autimalar contilage				
	(4)	Bones are joint to each other	by n	nean of fibrous tissue		
09.	Reg	ulators of thirst and hunger co	entre	is present in		
	(1)	Medulla	(2)	Midbrain		
	(3)	Hypothalamus	(4)	Cortex		
10.	Wh	ich of the following is NOT incl	uded	l in the stages of embryological		
		elopment?				
	(1)	Insemination	(2)	Gastrulation		
	(3)	Blastula formation	(4)	Morula formation		

4

05. Which of the following is NOT a part of immune system of the body?

(1) Langerhans cells (2) Helper T cells

11	. All	of the following are the parts	of Br	ainstem except
	(1)		(2)	
	(3)	Medulla	(4)	
	10001 10		(.)	
12	. Wh	nich of the following organelle i	s not	found in neurons?
	(1)	Mitochondria	(2)	
	(3)	Golgi Bodies	(4)	Centromere
13.	Wh	ich of the following is an excit	atorv	neurotransmitter in brain 2
	(1)	Glutamate	(2)	Ach.
	(3)	Dopamine	(4)	Glycine
		-	(. ,	ary office
14.	Mei	mory is related to which part o	of the	brian?
	(1)	Frontal lobe	(2)	Parietal lobe
	(3)	Temporal lobe	(4)	Occipital lobe
		4.0	8.6	•
15.		nal cord is a part of -		
	(1)	Central nervous System	(2)	Peripheral nervous system
	(3)	Both	(4)	None
16.	Whi	ch the following is not -		
	(1)	ch the following is not a neuro Alzheimer's disease		
	(3)		(2)	38-00 (1998-100) (1998
	(0)	Motor Neuron disease	(4)	CVA (Stroke)
17.	Whi	ch of the following is an infect	ioue	disease of manual 2
	(1)	Alzheimer's disease	(2)	Pontring and a 1
	(3)	Huntington's disease		
		S-on a diocase	(4)	Leprosy
18.	If bo	th parents are carrier of an aut	onon	nic recessive disease then what
		- Percontage of affection of on	e offs	pring?
	(1)	50%	(2)	0%
	(3)	25%	(4)	100%

19.	Max	imum score in Glasgow Coma	Scale	e (GCS) Score is -
	(1)	10	(2)	15
	(3)	20	(4)	5
	.EC +5500			
20.	Wha	at proportions of mitochondria	l disc	orders caused by mutations in
	the	mitochondrial DNA?		.0.50%
	(1)	10-20%	(2)	40-50%
	(3)	60-70%	(4)	90-100%
21.	The	outermost meningeal covering	g of th	ne brain is-
	(1)	Duramatter	(2)	Piamatter
	(3)	Arachnoid	(4)	None of the above
	, ,			
22.	Tcc	hnique of recording brain wave	e is ca	alled as -
	(1)	Electroencephalography	(2)	Electrooculography
	(3)	Electromyography	(4)	Nerve conduction Study
22	Нол	v many pairs of the cranial ne	ves a	are found in Human?
20.	(1)	10	(2)	11
	(3)	12	(4)	13
	(3)	12	N 82	
24.	Mei	ningitis is -		
	(1)	Inflammation of brain coveri		
	(2)	Inflammation of brain paren	chym	na
	(3)	None of the above		
	(4)	Both		
			c not	supply blood to the brain?
25	. Wh	nich of the following artery doe	(O) P HOT	External Carotid Artery
	(1)		(2)	1 A
	(3)	Vertebral Artery	(4)	Diamin

26	. Wh	nich of the following is not pair	n sen	sitive structure ?
	(1)		(2)	
	(3)	Brain Parenchyma	(4)	Sensory nerves
27.	. Sm	nallest skeletal muscle		
	(1)	Stepedias	(2)	Anconeus
	(3)	Piriformis	(4)	Platysma
28.	Wh	nich of the following is not a m	ovem	ent disorder ?
	(1)	Tremor	(2)	Parkinson's Disease
	(3)	Huntington's Disease	(4)	Epilepsy
29.	Wh acid	ich of the following disease card?	using	agent does not contain nucleic
	(1)	Bacteria	(2)	Virus
	(3)	Fungi	(4)	Prions
30.	Mos	st common neurological disorc	ler-	
	(1)	Stroke	(2)	Epilepsy
	(3)	Neuropathy	(4)	Headache
31.	Defi neu	iciency of which of the follow rological disorder?	ving	vitamins does not cause any
	(1)	Vit. B1	(2)	Vit. K
	(3)	Vit. B12	(4)	Vit. D
32.		sthenia Gravis is a disorder of	f-	
	(1)	Peripheral Nerves	(2)	Muscle
	(3)	Neuromuscular Junction	(4)	None of the above

33.	Neur	rosyphilis is caused by-		
	(1)	T.pallidum	(2)	Yaws
	(3)	Pinta	(4)	B. burgdorferi
34.	Neu	rons primarily derived energy	from-	
	(1)	Glucose	(2)	Proteins
	(3)	Fatty Acids	(4)	All of the above
35.	All c	of the following are CAG trinue	eleoti	de repeat disorder except
	(1)	Myotonic Dystrophy	(2)	Huntington's Disease
	(3)	Friedrich Ataxia	(4)	SCAs
36.	Ger	nes implicated in young onset /	AD	
	(1)	PS1	(2)	PS2
	(3)	ЛРР	(4)	All of the above
37.	All	of the following are cells of ner	vous	system except-
	(1)	Neurons	(2)	Astrocyte
	(3)	Microglia	(4)	Histiocyte
38.	Fat	her of EEG is-		
	(1)	Hans Berger	(2)	Babinski
	(3)	Jenn martin Charcot	(4)	Christopher Bernard

39.	W III	on of the neurotransmitter act	at sk	eletal neuro muscular junction
	(1)	DA	(2)	Ach
	(3)	Norepinephrine	(4)	Glycine
40.	Alwa	ays fatal diseasc is-		
	(1)	Rabies	(2)	ТВ
	(3)	Malaria	(4)	HIV

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. Differences between apoptosis and necrosis
- 02. Role of Glutamate in nervous system
- 03. Na-K ATPase
- **04.** Superoxide dismutase
- 05. Stem cell transplantation
- **06.** Pedigree Analysis
- 07. Karyotyping
- **08.** Cell signaling
- 09. Protein Targetting
- 10. Post translational modification

10 100

Ques	tion	No.
£		

Question No.	Ques	tion	No.
--------------	------	------	-----

Question	No.
----------	-----

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 पृष्ट मौजैूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पृर्ण ١. प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- पर्राक्षा भवन में *लिफाफा रहित प्रवेश-पत्र के अतिरिक्त,* लिखा या सादा कोई भी खुला कागज साथ में 2.
- 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।
- उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा 4. कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर 5.
- 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 अनुमति 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 गाढ़ा करना है।
- प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा। 9.
- ध्यान दें कि एक बार स्याही 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.
- 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 अनुमति नहीं होगी।
- यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्रारा निर्धारित 13. 14. दंड का/की, भागी होगा/होगी।