

2406000101020602 EXAMINATION OCTOBER 2024 (SUPPLEMENTARY EXAM) FIRST MBBS PHYSIOLOGY (PAPER - II) (NEW) - LEVEL 2

[Time: A	s Per Schedule]	[Max. Marks: 100]
a. M b. M c. S 2. Sketcl 3. Figure	ions: up strictly the following details on your answer book Name of the Examination: FIRST MBBS Name of the Subject: PHYSIOLOGY (PAPER - II) NEW) - LEVEL 2 Subject Code No: 2406000101020602 th neat and labelled diagram wherever necessary. The strictly the following details on your answer book Name of the Examination: FIRST MBBS Name of the Subject: PHYSIOLOGY (PAPER - II) NEW) - LEVEL 2 Subject Code No: 2406000101020602 The neat and labelled diagram wherever necessary. The strictly the following details on your answer book Name of the Examination: FIRST MBBS Name of the Subject: PHYSIOLOGY (PAPER - II) NEW) - LEVEL 2 Subject Code No: 2406000101020602 The neat and labelled diagram wherever necessary. The strictly the following details on your answer book Name of the Examination: FIRST MBBS Name of the Subject: PHYSIOLOGY (PAPER - II) NEW) - LEVEL 2 Subject Code No: 2406000101020602 The neat and labelled diagram wherever necessary. The strictly indicate full marks of the question. The strictly indicate full marks of the question.	Seat No: Student's Signature
	Section A	
Q.1	MCQ:	20
2	A. Bell-Magendie law C. Weber-Fechner law D. Law of pr 2. A single sensory axon and all of its peripheral branches of A. Receptive field C. Dermatome D. Sensory under the properties of the pr	line principle rojection constitute a: nit nerve
4	 A. Presence of stretch receptors in the tendon B. Co-activation no fα&y - motor neurons C. Reciprocal innervation D. Autogenic inhibition Joint position sense is transmitted by: A. Anterior spinothalamic tract B. Lateral 	spinothalamic tract
5	•	or Corticospinal tract
	stimulus result in hyperpolarization of receptor cells?	1



A. Visual pathway	B. Auditory	pathway	
C. Taste pathway	D. Olfactory	pathway	
6. Impedance matching is a function of:			
A. Scala media	B. Endolymp	h	
C. Ear ossicles and tympanic membra	rane D. Cochlear	nucleus	
7. Human chorionic gonadotropin is stru A. LH B. FSH C. Growth	•	ally similar to: Inhibin	
8. Which of the following hormones is r	not diabetogenic?		
A. Epinephrine	B. Cortisol		
C. Growth hormone	D. Glucagon		
9. The release of androgens from the adi	renal cortex is stimulat	ed mainly by	
A. LH B. FSH C.	ACTH D. C	GnRH	
10. In Humans, the hormone that is main	ly secreted by adrena	l medulla is:	
A. Epinephrine	B. Norepinephi	rine	
C. Dopamine	D. Adrenomed	lullin	
11. The term neuro-hormone' is applied	to:		
A. Oxytocin and Vasopressin	B.NO&CO		
C. Glycine & Glutamate	D.FSH&LH		
	OU.		
12. Which of the following hormones do mechanism?	es not act through Gpi	rote in coupled receptor	
A. Epinephrine	B. Angiotensin-	-II	
C.ACTH	D. Thyroxine		
13. Somatostatin inhibits the secretion o	f:		
A. Insulin B. Glucagon C	. Growth hormone	D. Gastrin	
14. Iodine is concentrate din thyroid folli	icular epithelial cells	by:	
A. Primary active transport	B. Secondary a		
C. Simple diffusion	D. Facilitated	-	
15. Hypothalamus does not play a promi	nent role in the regula	tion of:	
A. Food & water intake	B. Temperature	;	
C. Respiration	D. Circadian rl	nythm	
16. Which of the following is heat conse	erving mechanism?		
A. Panting	B. Sweating		
C. Curling up in a ball	D. Insensible v	vater loss	



Q.2

Q.3

Q.4

17. Most of the ATP generated in the nerve cell	lls is utilized to energize the			
A. Na+-Ca++exchanger	B. H + ATPase			
C. Na+-K + ATPase	D. Protein synthesis			
18. The number of sodium channels per square	e micrometre of membrane in			
myelinated mammalian neurons is maximum in the:				
A. Cell body	B. Dendritic zone			
C. Initial segment	D. Node of Ranvier			
19. Which of the following statements about e.A. They are graded responsesB. They are local non propagated response	•			
C. Maybe depolarizing or hyperpolarizing	r 5			
D. They are produced by a threshold stime	ulus.			
20. Which of the following cells undergo meio	tic division?			
A. Primordial germ cells	B. Primary spermatocytes			
C. Secondary spermatocytes	D. Secondary oocyte			
Section	В	40		
Long Answer Questions		10		
A middle-aged person working as an executive tiredness and pain in both the lower limbs, alor increase in urinary frequency and hunger since a. What is the probable condition? (2 marks) b. What blood parameters are likely to be deractive. What is the patho-physiology for the above d. What are the Life Style Modifications require this condition? (3 marks)	ng with decrease in body weight, last six months. anged? (2 marks) condition? (3 marks)			
Answer in Short (Any 5 out of 6)		15		
 a. Shivering thermogenesis. b. Actions of Vitamin D. c. Natural contraceptive methods. d. Wernicke's area e. Attenuation reflex. f. Milk let-down reflex. 				
Short notes (Any 3 out of 4)		15		
a. Muscle spindleb. Functions of hypothalamus.c. Male puberty.				



d. Auditory pathway.

Section C	40
Long Answer Question	10
Enlist the hormones secreted from the pituitary gland and describe the functions of the Growth hormone. Explain the basis of acromegaly, gigantism, and dwarfism. $(2+5+3=10 \text{ marks})$	
Answer in Short (Any 5 out of 6)	15
 a) Indicators of ovulation b) Regulation of thyroid hormone secretion c) Conductive deafness d) Referred pain e) Inverse stretch reflex f) Properties of synapse 	
Short notes (Any 3 out of 4)	15
a) Spermatogenesis b) Photo transduction c) Cutaneous receptors d) Flight and fight response	
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