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[MBBS 0825]

AUGUST 2025

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2024-2025)

FIRST PROFESSIONAL – (CBME) PAPER II – PHYSIOLOGY						
						Q.P. Code: 527054
Time	: 20 Minutes	Maximum: 20 Marks				
	Answer All Q					
	Shade the correct answer with Bla	ack or Blue ink ball point pen				
	SET -	<u>A</u>				
IV. M	ultiple Choice Questions:	$(20 \times 1 = 20)$				
1.	•	ne Ophthalmology department for medical He was found to have blindness for red				
	A) Protanopia B) Deuteranopia	C) Tritanopia D) Monochromatism				
2	During inspiration					
2.	A) Intra-thoracic pressure increases	B) Intra-thoracic volume increases				
	C) Intra-alveolar pressure increases	D) Intra-alveolar volume decreases				
	2) India arroam votame decidades					
3.	Volume of air remaining in the lungs after	normal expiration is				
	A) Residual volume	B) Functional residual capacity				
	C) Vital capacity	D) Total lung capacity				
4.		e and was brought to the tertiary care centre.				
	He was treated with methylene blue because A) Methylene blue destroys cyanide B) Methylene blue forms methemoglobin C) Methylene blue improves tissue oxygenation					
D) Methylene blue causes reduction reaction in hemoglobin						
5.	Presence of Surfactant in the fluid lining the	ne alveoli				
	A) Increases surface tension	B) Increases work of breathing				
	C) Prevents pulmonary edema	D) Causes collapse of alveoli				
6. Visual acuity is greatest in						
	A) Fovea centralis B) Optic disc C	C) Ora serrata D) Optic nerve				
7.	Increase in the force of cardiac contraction	without change in muscle length occurs by				
	A) Catecholamines	B) Increase in end-diastolic volume				
C) Infusion of isotonic saline D) Venoconstriction						

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C) M-line

8. T system in the cardiac muscle is located in

B) Z-line

A) A-I junction

... 2 ...

D) H-zone



	2					
9.	A 30 year old male was advised sleep study by his physician. Which of the following finding will be present in stage II non-rapid eye movement sleep? A) Alpha wave B) Theta rhythm C) K-complexes D) Delta wave					
10.	Fungiform papilla are most numerous near A) Tip of tongue B) Side of tongue C) Posterior part of tongue D) Pharynx					
11.	Optic nerve leaving the eye is visible in Ophthalmoscope as A) Macula lutea B) Fovea centralis C) Optic disk D) Ora serrata					
12.	First order neurons of dorsal column pathway synapse in A) Spinal cord B) Medulla C) Pons D) Sensory cortex					
13.	Emotional response to olfactory stimuli is due to olfactory information reaching A) Orbitofrontal cortex B) Amygdala C) Entorhinal cortex D) Olfactory bulb					
14.	Tracking movements of the eyes as they follow moving objects are called A) Saccadic movements B) Smooth pursuit movements C) Vestibular movements D) Convergence movements					
15.	A 21 year old male fell from bike and suffered spinal injury. Imaging study revealed transaction of left half of spinal cord in lumbar region. Which of the following sensation would be lost on the right lower limb? A) Touch B) Pain C) Vibration D) Position sense					
16.	A 40 year old male complaining of Palpitation. It the R-R interval of this patient is 0.60 seconds in ECG, then his heart rate would be A) 60/min B) 75/min C) 100/min D) 120/min					
17.	Which of the following is not a cause of neurogenic shock? A) Septic shock B) Deep general anesthesia C) High spinal anesthesia D) Brain damage					
18.	 18. Direct effect of γ-motor discharge is A) Contraction of extrafusal fibres B) Contraction of ends of intrafusal fibres C) Contraction of middle portion of intrafusal fibres D) Relaxation of extrafusal fibres 					
19.	19. A 55 year old male was diagnosed as having congestive cardiac failure with a left ventricular ejection fraction of 30%. He was advised digoxin for increasing cardiac contractility because of its ability to increase intracellular stores of A) Sodium B) Potassium C) Calcium D) Magneisum					
20.	Parallel fibres in cerebellar cortex is formed by axons of cells A) Purkinje cells B) Granule cells C) Basket cells D) Stellate cells **********************************					



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(CRME) FIRST PROFESSIONAL

	r	PAPER II – PI Q.P. Code	HYSIOLOGY	<i>(</i>)			
Time:	Time: 20 Minutes Maximum: 20 Marks						
		Answer All ect answer with B	-				
		<u>SET</u>	<u>- B</u>				
IV. M	ultiple Choice Que	stions:		$(20 \times 1 = 20)$			
1.	A 45 year old male he was treated with A) Methylene blue of C) Methylene blue in D) Methylene blue of C) Methylene blue of C)	methylene blue beca lestroys cyanide forms methemoglob mproves tissue oxyg	nuse in genation	to the tertiary care centre.			
2.	Presence of Surfacta A) Increases surface C) Prevents pulmona	tension	B) Increases w	ork of breathing apse of alveoli			
3.	Visual acuity is grea A) Fovea centralis	test in B) Optic disc	C) Ora serrata	D) Optic nerve			
4.	Increase in the force A) Catecholamines C) Infusion of isotor			in muscle length occurs by end-diastolic volume riction			
5.	T system in the card A) A-I junction		l in C) M-line	D) H-zone			
6.	-	•	• • •	•			
7.	Fungiform papilla a A) Tip of tongue	re most numerous no B) Side of tongue	ear C) Posterior pa	art of tongue D) Pharynx			
8.	Optic nerve leaving A) Macula lutea	the eye is visible in (B) Fovea centralis		S D) Ora serrata			

D) Sensory cortex

C) Pons

9. First order neurons of dorsal column pathway synapse in

B) Medulla

A) Spinal cord

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		•••	<i>L</i>		
A	motional response to Orbitofrontal cortex Entorhinal cortex	*	lue to olfactory infor nygdala factory bulb	mation reaching	
C) Entormial cortex	D) (J	ractory build		
	racking movements) Saccadic moveme	of the eyes as they fo	llow moving objects B) Smooth pursuit		
			-		
C) Vestibular movem	ents	D) Convergence m	ovements	
tr se	ansaction of left hensation would be lo	alf of spinal cord in st on the right lower l	n lumbar region. W imb?	Imaging study revealed Thich of the following	
A	.) Touch	B) Pain	C) Vibration	D) Position sense	
0.	<u> </u>	complaining of Palpit then his heart rate we B) 75/min		terval of this patient is D) 120/min	
1/ X	Which of the followi	ng is not a cause of no	eurogenic shock?		
		ing is not a cause of in	· ·	naral anasthasia	
) Septic shock			neral anesthesia	
C) High spinal anesth	esia	D) Brain da	amage	
15 D	S	4! 1 ! .			
	irect effect of γ-mot	•			
	A) Contraction of extrafusal fibres				
		ds of intrafusal fibres			
		ddle portion of intraft	ısal fibres		
D	D) Relaxation of extrafusal fibres				
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	.) Sodium		C) Calcium		
A	.) Soululli	B) Potassium	C) Calcium	D) Magneisum	
17. P	arallel fibres in cere	bellar cortex is forme	d by axons of	cells	
	1	B) Granule cells	=		
7 3	i) I tirkinje cens	b) Granule cens	C) Busket cens	D) Stellate cells	
ez	•	post of train driver.	-	epartment for medical have blindness for red	
	.) Protanopia		C) Tritanopia D)	Monochromatism	
) Troumopia	B) Beateranopia	c) III.aiiopia 2)		
19. D	ouring inspiration				
	.) Intra-thoracic pres	sure increases	B) Intra-thoracic v	olume increases	
) Intra-alveolar pres		D) Intra-alveolar v		
C	, maa arveorar pres	oute mercuses	D) minu anveoral v	ordine decreases	
20. V	olume of air remain	ing in the lungs after	normal expiration is		
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) Vital capacity		D) Total lung capa		
\sim	, ricai capacity		2) I otal lalig capa	····	



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A) 60/min

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		PER II – PHY O P Code: 5	SIOLOGY	L)			
Time	Q.P. Code: 527054 Fime: 20 Minutes Answer All Questions Shade the correct answer with Black or Blue ink ball point pen						
		SET - C	2				
IV. M	Iultiple Choice Questions:	:		(2	$20 \times 1 = 20$		
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	A) A-I junction B) Z-	line C)	M-line	D) H-zone			
2.	A 30 year old male was adv finding will be present in sta A) Alpha wave B) T			t sleep?	ne following lta wave		
3.	0 1 1	numerous near de of tongue	C) Posterior 1	part of tongue	D) Pharynx		
4.	- r · · · · · · · · · · · · · · · · · ·	is visible in Oplovea centralis			serrata		
5.	First order neurons of dorsa	l column pathwa	av synapse in				
				Sensory cortex			
6.	Emotional response to olface A) Orbitofrontal cortex C) Entorhinal cortex	B) An	ue to olfactory nygdala factory bulb	information rea	aching		
7.	Tracking movements of the A) Saccadic movements C) Vestibular movements	eyes as they fol	B) Smooth po	ojects are called arsuit movemen nce movements	ts		
8.	A 21 year old male fell from transaction of left half of sensation would be lost on to A) Touch B) Pa	spinal cord in he right lower li	lumbar regio	on. Which of the	•		
9.	A 40 year old male compla 0.60 seconds in ECG, then l	•		-R interval of t	his patient is		

C) 100/min

D) 120/min

... 2 ...

B) 75/min



r's ch	noice V	vww.FirstRank 2 2		www.FirstRanker.com
10.	Which of the following is n A) Septic shock C) High spinal anesthesia		rogenic shock?	general anesthesia damage
11.	Direct effect of γ-motor disc A) Contraction of extrafusa B) Contraction of ends of in C) Contraction of middle p D) Relaxation of extrafusal	on the state of th	al fibres	
12.	A 55 year old male was d ventricular ejection fraction contractility because of its a A) Sodium B) Po	n of 30%. He w	as advised digox	in for increasing cardiac
13.	Parallel fibres in cerebellar (A) Purkinje cells B) Gi	cortex is formed ranule cells	by axons of C) Basket cells	
14.	A 22 year old male was examination for the post of colour. Identify the condition A) Protanopia B) Do	of train driver.	He was found to	•
15.	During inspiration A) Intra-thoracic pressure in C) Intra-alveolar pressure in			volume increases
16.	Volume of air remaining in A) Residual volume C) Vital capacity	the lungs after no	ormal expiration in B) Functional results D) Total lung cap	sidual capacity
17.	A 45 year old male had con He was treated with methyle A) Methylene blue destroys B) Methylene blue forms m C) Methylene blue improve D) Methylene blue causes m	ene blue because s cyanide nethemoglobin es tissue oxygena	tion	o the tertiary care centre.
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C) Calcium

D) Magneisum

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B) Potassium

A) Sodium



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9.	Parallel fibres in cerel	bellar cortex is fo		cells
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	A) Intra-thoracic pres	sure increases	B) Intra-thorac	cic volume increases
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12.	Volume of air remain	ing in the lungs a	•	
	A) Residual volume		<i>'</i>	residual capacity
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	He was treated with n A) Methylene blue de B) Methylene blue fo C) Methylene blue in D) Methylene blue ca	nethylene blue be estroys cyanide orms methemoglo nproves tissue ox	cause bin ygenation	t to the tertiary care centre.
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17.	T system in the cardia	ac muscle is locate	ed in	
	A) A-I junction	B) Z-line	C) M-line	D) H-zone
18.	A 30 year old male we finding will be presen A) Alpha wave	-	rapid eye movement	-

20. Optic nerve leaving the eye is visible in Ophthalmoscope as

19. Fungiform papilla are most numerous near

A) Macula lutea

A) Tip of tongue

B) Fovea centralis

B) Side of tongue

C) Optic disk

C) Posterior part of tongue

D) Ora serrata

D) Pharynx