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# RAN-2006000101020002

First Year M.B.B.S. Examination January - 2023

Physiology: Paper - II

Time: 3 Hours	[ Total Marks: 100
સૂચના : / Instructions	
ાં નીચે દર્શાવેલ ❤ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the details of ❤ signs on your answer book	Seat No.:
Name of the Examination:	
First Year M.B.B.S.	
Name of the Subject :	
Physiology : Paper - II	
Subject Code No.: 2006000101020002	Student's Signature

- Section A (MCQ) is given in separate sheet.
- (3) Draw diagrams and flow chart wherever required.

Section A (MCQs)

20 Marks

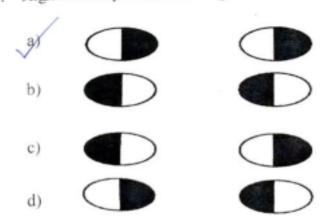
Select the most appropriate choice in each of the following MCQ

- The absence of sense of taste is known as
  - a) Anosmia

Ageusia

b) Hypogeusia

- d) Dysgeusia
- Right homonymous hemianopia means





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3	No	я fluent aphasia is produced	by lesion o	f		
5	(a)	Broca's area	c)	parietal lobe		
	b)	angular gyrus	d)	frontal lobe		
4.	. Re	ceptor potential generated in	photorecep	otors are type		
	a)		c)	Spike potential		
	VP)	Hyperpolarizing	d)	Action potential		
5.	Wh	Which of the following cutaneous receptor responds to painful stimuli?				
	a)	Merkel's disc	(0)			
	b)	Ruffini'send organs	d)	Pacinian corpuscles		
6.	Am	orphosynthesis is				
	(a)	Lack of awareness of soma	atic sensatio	ons from the opposite side of body		
	b)			ons from the same side of body		
	c)			ons from the same side of body		
	d)			from the opposite side of body		
7.	Pro	gressive hepatolenticular de	generation	leads to		
	a)	Athetosis	(c)	Torsion chorea		
	b)	Parkinson's disease	(d)	Wilson's disease		
8. The receptors for pressure, stretch and kinaesthetic imp		esthetic impulses are				
	a)	Organ of Corti	c)	Meissner's corpuscles		
	b)	End bulb of Krause	d)	Pacinian corpuscles		
9.	Ast	Astigmatism may be corrected by use of				
	a)	Concave lens	S	Cylindrical lens		
	b)	Bifocal lens	(d)	Convex lens		
10.	Uma	Umami taste is because of				
	a)	Glucose	JE)	Glutamic acid		
	b)	Sodium chloride	d)	Hydrogen ion		
11.	Secr	etion of Parathormone is co	ntrolled by			
	a)	Anterior pituitary	c)	Hypothalamus		
	b)	Posterior pituitary	d	Blood calcium level		
12.	Gluc	agon secretion is inhibited	by			
	a)	Hypoglycemia	c)	Pancreozymin		
		Hyperglycemia	d)	Protein meal		
1	1					

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13	D						
1,	. Pa	Secreted by the secreted by th					
	~2)	secreted by cells into the extraor	llula	r fluid and off			
	b)	target cells of different type		and affect neighbouring			
	0)	cied by cells into the outer a	llula	r fluid and affect the functions			
	c)	of the same cell that produced th	em	arreet the functions			
	d)	of cens but remain insi	de th	c cell			
		tone of the above					
14	. Th	ne most active form of Vitamin D is					
	a)	vitamin D3	ex	Calcitriol			
	b)	7-Dehydrochole calciferol	d)				
15.	La		-				
	a)	ctational amenorrhoea is due to the Dopamine	effe	ct of			
	b)	Cortisol		Prolactin			
				Inhibin			
16,	IU	CD (Intrauterine contraceptive dev	ice)				
	a)	Inhibits ovulation					
	(p)	Makes the intrauterine environment	ent h	ostile to nidation of			
		fertilized ovum					
	c)	Prevents menstruation					
	d)	Prevents fertilization of ovum					
17.	The	The deficiency of hormone which causes Osteoporosis of bone in old age					
	a)	Progesterone		Leutinizing hormone			
		Follicle stimulating hormone	dy	Oestrogen			
18.	The	The most commonly used synthetic Oestrogen are					
	2)	Ethinyl estradiol	c)	Ethynodiol			
	b)	Norgestrel	d)	Norethindrone			
19.	Oly	Olympic level endurance fitness is associated with an exceptionally high					
	a)	Haemoglobin level		Vital capacity			
	b)	Oxygen saturation of blood	di	Resting stroke volume			
20.	A ris	A rise in the osmolality of extracellular fluid may lead to all except					
	a)	Suppression of sweat secretion					
	b)	Thirst	d)				

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Q. 1	An 8 von SECTION - B	(40 Marks)				
	An 8 year old child was brought to the OPD by the parents from the parent, the child had outplayed milestones, standis showed pot belly, umbilical hernia, stunted growth, low IQ reflex activity.  a) Identify the condition. b) What is the cause of the disorder? c) What tests can be performed to confirm diagnosis? d) Describe the various types of Dwarfism with their cause	warf and and reduced (10 marks) (1 mark) (1 mark) (2 marks)				
Q.2	Answer in Short(Any 5 out of 6)     Responsibilities of a doctor     Functions of Sertoli cells     Effects of increase in Serum Calcium levels	(5×3=15 marks)				
	Secretion, Regulation and Function of Melatonin     Neuroglia     Effects of removal of ovaries	(1+1+l mark)				
Q.3	Short notes (Any 3 out of 4)	(3×5=15 marks)				
Q.S	Functions and Regulation of Aldosterone	(3+2 marks)				
	Mechanisms of Heat loss from body to maintain Body Temperature					
	Maternal changes during Pregnancy					
	4. Puberty					
	SECTION - C	(40 Marks)				
Q.4	Describe connections and Functions of Hypothalamus.	(3+7) (10 marks)				
Q.5	Answer in Short (Any 5 out of 6)	(5x3=15 marks)				
2.0	1 Viewal Agnosia					
	<ol><li>Sound frequency is determined by place principle. Explain</li></ol>	n.				
	3. Reduced Eye					
	Factors affecting excitability of nerve fibre					
	Upper Motor Neurons and Lower Motor Neurons     Upper Motor Neurons and Lower Motor Neurons					
	Sensory and Association areas of Temporal Lobe.					
Q.6	Short notes (Any 3 out of 4)	(3x5=15 marks)				
	Sympathetic Nervous system     Sympathetic Nervous system					
	Parts and Functions of Middle Ear	(2+3marks)				
	3. Properties of Receptors					
	<ol> <li>Neurons in Retina (including their connections and Func</li> </ol>	tions)				
		326				
		03				