Exam Date & Time: 25-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

	пишан Анатошу ан	a Physiology-1 [PHA-BP10	J11 - S2J	
Marks: 75			Duration: 180 mins.	
	I Multiple (Choice Questions (MCQs)		
Answer all	the questions.		Section Duration: 30 mins	
1)	Non Ciliated simple columnar epit	helium is present in		
		•		
r			(1)	
	1) Fallopian tube 2) GIT	3) Trachea 4) Lu	ings	
2)	An abnormal thickening of this layer of epidermis leads to callus			
	Stratum Stratum	Stratum	Stratum (1)	
	1) corneum 2) granulo		4) spinosum	
		1 1 - 3 2 2	21 yrg 11	
3)	High count of lymphocytes may indicate			
	1) Bacterial 2) Funga		Parasitic (1)	
	infection infect	ion infection	infection	
4)	Normal child birth is an example of			
	Neutral Negativ	e Positive	Homeostatic (1)	
	1) feedback 2) feedbac		Homeostatic imbalance (1)	
<i>*</i>	mechanism mechanism mechanism			
5)	This is the only digestive organ that is attached to the anterior abdominal wall			
			(1)	
		3) Stomach 4) Esoph	agus	
6)	This is the long bone's shaft			
			(1)	
	1) Epiphysis 2) Diaphysis	3) Metaphysis 4) Periphysis	
7)	The deepest layer of the epidermis			
	1) Stratum 2) Stratu	m 3) Stratum	4) Stratum	

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	granulosum spinosum basale corneum				
8)	One of the following does not cause a rise in heart rate				
	Increased parasympathetic stimulation 2) Increased sympathetic stimulation 3) Catecholamines in the blood 4) Thyroid hormones in the blood	(1)			
9)	Blood passes from the left atrium into the left ventricle through				
	1) Tricuspid valve 2) Aortic valve 3) Pulmonary valve 4) Mitral valve	(1)			
10)	For the diagnosis of cancer in thyroid tissue it will be appropriate to perform				
	1) Blood test 2) Biopsy 3) Blood pressure measurement 4) Iron analysis	(1)			
11)	This is an example of saddle joint				
	1) Intercarpal 2) Interphalangeal 3) Carpometacarpal 4) Radiocarpal	(1)			
12)	Ability of the muscle to stretch without being damaged is	11			
	1) Contractility 2) Extensibility 3) Excitability 4) Elasticity	(1)			
13)	A small part of antigen that initiates immune response is	1)			
	1) Hapten 2) Epitope 3) Self-antigen 4) MHC- antigen	1)			
14)	Vascular resistance is not dependent on				
	1) Circulation time 2) Size of the blood vessel lumen 3) Total blood vessel length 4) Viscosity of blood (1)			
15)	This class of immunoglobulins (Ig) operates during incompatible blood transfusion (1) In Eq. (2) In Adv. (2) In Adv. (1) In Eq. (1)				
	1) IgE 2) IgM 3) IgA 4) IgD				
16)	Velocity of the blood flow is slowest in				
	1) Capillaries 2) Arteries 3) Venules 4) Arterioles	1)			
17)	Cell that causes cellular destruction by releasing perforin (1)				
	1) B cell 2) T cell 3) Natural killer cell 4) CD4+ cell	1)			
18)	Which hormone lowers the blood pressure?				
	Antidiuretic hormone 2) Atrial natriuretic peptide 3) Angiotensin 4) Aldosterone (1)	1)			
19)	Clotting in an unbroken blood vessel is known as				
	1) Thrombosis 2) Clot retraction 3) Embolism 4) Agglutination	1)			
20)	Which cells secrete pepsinogen?				
	1) Parietal cells 2) G cells 3) Chief cells 4) Surface mucous cells	1)			

II Long Answers

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1)	With a neat labelled diagram of heart, describe its conduction system. When is an artificial pacemaker needed? What triggers ectopic activity?	(10			
2)	Summarize the events of contraction and relaxation in a skeletal muscle fibre	(10			
	III Short Answers				
Answer all the questions.					
1)	Explain functions of integral proteins with examples	(5)			
2)	Describe the extrinsic and intrinsic pathways of blood coagulation	(5)			
3)	Discuss the process of deglutition. Give the clinical significance of GERD	(5)			
4)	Outline the mechanical and chemical digestive processes in the stomach	(5)			
_5)	Describe the neural regulation of blood pressure	(5)			
6)	Discuss the process of phagocytosis as a vital defense mechanism that helps protect the body from disease	(5)			
7)	Explain the chemical digestion occurring via pancreas. What is emulsification?	(5)			
End					