a. Spleen

c. Liver

B.PHARM.

FIRST SEMESTER (REPEAT) **HUMAN ANATOMY AND PHYSIOLOGY-I** BP-101 T

Du	(Use separate answer scripts for ration: 3 hrs.	r Objective & Descriptive) Full Marks: 75				
Tin	(<u>PART-A : Objective</u>) Time : 20 min. Marks : 20					
Ch	ing: 1X20=20					
1.	What is the controlled condition? a. It receives the input c. Variable which is monitored	b. Disruptions caused in homeostasisd. Receives output				
2.	Materials move out of a cell by the fusion wi formed inside the cell is a. Endocytosis c. Pinocytosis	th the plasma membrane of vesicles b. Phagocytosis d. Exocytosis				
3.	develop from monocytes and destro a. Macrophages c. Fibroblast	by bacteria and cell debris by phagocytosis. b. Reticular fibers d. Mast cells				
4.	Which directional term can be used to descria. Anterior c. Lateral	be 'away from the midline'? b. Superior d. Medial				
5.	Ceruminous glands are found in: a. Lips c. External auditory canal	b. Foreheadd. Skin of groin				
6.	When muscle contracts upon stimulation, call exposes the binding sites for the myosin crost a. Actin c. Both a and b					
7.	The appendicular skeleton has bones. a. 126 c. 96	b. 80 d. 128				
8.	The calcaneus forms the of the foot. a. Toes c. Sole	b. Heeld. None of the above				
9.	During blood coagulation thromboplastin is a. RBC c. Leucocytes	released from: b. Blood plasma d. Damaged tissues				
10.	The hormone erythropoietin stimulates red by marrow. Where in the body is erythropoietin	. .				

b. Kidney

d. Thyroid

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11.	Which of the following white blood cells is ca a. Basophils c. Lymphocyte	pable of phagocytosis? b. Eosinophils d. Neutrophils		
12.	What lymphatic structure absorbs lipid in the a. Lacteal c. Lymphatic duct	e intestine? b. Lymphatic trunk d. Collecting vein		
13.	Which of the following nerves are responsibl a. Abducens nerve c. Occulomotor nerve	e for the movement of the eye? b. Trochlear nerve d. All of the above		
14.	Which nerve controls the Peripheral Nervous relaxation of the smooth muscle in the GI trace. X	•		
15.	Sympathetic nerves arise from: a. Thoracolumbar outflow c. Cranial outflow	b. Craniosacral outflowd. All of the above		
16.	The sympathetic nervous system postganglic neurotransmitters? a. Acetycholine c. Norepinephrine	b. Serotonin d. Dopamine		
17.	Myocardial contractility is best correlated with $\mathbf{a}.\mathrm{Na^+}$ $\mathbf{c}.\mathrm{Ca^{2+}}$	th the intracellular concentration of: b. K ⁺ d. None of the above		
18.	P wave is due to: a. atrial repolarization c. atrial systole	b. atrial depolarizationd. atrial diastole		
19.	Cardiac output is the product ofxa. Stroke volume, heart rate	b. Heart rate, peripheral vascular resistance		
	c. Cardiac reserve, stroke volume	d. Stroke volume, ventricular end- diastolic volume		
20. The left side of the heart is the pump for				
	a. Systemic circulation	b. Pulmonary circulation		
	c. Both a and b	d. Lymphatic circulation		

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$(\underline{PART-B : Descriptive})$

Time: 2 hrs. 40 min.		Marks: 35
	[Answer any seven (7) questions]	
1.	Give an account on the formed elements of blood.	5
2.	Give a brief account on the four principal type of cells found in the epidermis. What are the functions of the skin?	3+2=5
3.	Write a short note on lymph nodes and its functions.	5
4.	List out the cranial nerves with their functions.	5
5.	Describe the electrocardiogram representation.	5
6.	Short note on the common errors of refraction.	5
7.	Describe long term control of blood pressure.	5
8.	Describe primary and secondary active transport with suitable examples.	5
9.	Based on the shape, bones are classified into five types. Explain.	5

$\left(\begin{array}{c} \underline{PART-C: Long\ type\ questions} \end{array}\right)$

[Answer any two (2) questions]

1.	What is homeostasis? Explain positive and negative feedback mechanism with suitable examples. What are the different forms of intracellular signaling?	2+5+3=10
2.	Enlist the various clotting factors. Explain about extrinsic, intrinsic and common pathway involved in blood clotting cascade.	10
3.	Give a brief description on Cranial bones with suitable diagram.	10

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