Seat No: Enrollment No:		No.	

## PARUL UNIVERSITY

## **FACULTY OF PHARMACY**

B. Pharm. Summer 2018 - 19 Examination Semester: 1 Date: 22/04/2019 **Subject Code: BP101T** Time: 2.00 pm to 5.00 pm Subject Name: Human Anatomy and Physiology I- Theory **Total Marks: 75** 1. Figures to the right indicate maximum marks. 2. Make suitable assumptions wherever necessary. Q.1 Multiple Choice Questions (MCQs) (1 Mark Each) (20)1. The system responsible for transporting blood around the body is: a) Urinary system **b)** Circulatory system c) Lymphatic system **d**) Digestive system 2. Which of the following cells does not exhibit phagocytic activity a) Monocyte b) Neutrophil d) Macrophage c) Basophil 3. The volume of blood present in adult human is... a)1 liter **b)** 2 liters c) 5 liters **d**) 10 liters 4. Insufficient blood supply in human body is referred as a) Ischemia **b**) Hyperemia c) Hemostasis d) Hemorrhage 5. The connection of conduction between the myocardium of atria and that of ventricle is: a) S.A Node b) A.V Node c) A.V Bundle d) Purkinje Fiber 6. The entire nervous system is divided into two main regions: The **b)** CNS and the PNS a) Brain and the spinal cord. c) Neurons and the glial cells **d**) Motor neurons and the sensory neurons 7. All the nervous tissue outside the brain and spinal cord is the \_\_\_\_\_ nervous system. a) Peripheral **b)** Autonomic c) Somatic d) Central 8. The left side of the heart is responsible for pumping: a) Oxygenated blood to the body. **b**) Oxygenated blood to the lungs. **c**) Deoxygenated blood to the body. **d**) Deoxygenated blood to the lungs. The lymphatic system consists of \_\_\_ a) Lymphatic vessels and lymphoid organs **b**) all of the plasma component of the bloodstream c) thymus gland d) axillary lymph nodes 10. Tissue fluid in the lymphatic system is called \_\_\_\_ b) hemoplasma a) plasma c) Ringer's solution d) lymph 11. An involuntary response by the nervous system to a stimulus is a **b**) Reflex a) Synapse

c) Motor response d) Smooth muscle

12. The movement of K+ out of the cell makes the inside of the cell less positive (more negative) and acts to restore the original resting voltage of the neuron -a process called

a) Depolarization b) Hyperpolarization

c) Repolarization d) Overshoot

13.	The cells of nervous tissue that are not neurons but that assist neurons are called				
	a) Amyloid plaques	<b>b</b> ) Fibroblasts			
	c) Leukocytes	d) Neuroglia			
14. The period between two successive cell divisions in called					
	a) Duplication	<b>b</b> ) Growth phase			
	c) Cell cycle	d) Interphase			
<b>15.</b>	The following tissues are proper connective tissue				
	a) cartilage	<b>b</b> ) lymph			
	c) adipose tissue	d) blood			
16.	The pH of Human Blood is?				
	a) 7.2	<b>b</b> ) 7.4			
	c) 7.6	<b>d</b> ) 6.8			
<b>17.</b>	The T wave of an electrocardiogram represents w	hich event?			
	a) ventricular depolarization	<b>b</b> ) atrial repolarization			
	c) ventricular repolarization	<b>d</b> ) atrial depolarization			
18.	Universal receivers can receive blood from				
	a) Group AB only	<b>b</b> ) Group O only			
	c) Group A,AB	<b>d</b> ) Group O,A,B,AB			
19.	Ions of which of the following minerals play an im				
	$\mathbf{a)}\ \mathrm{Mg}^{^{+}}$	$\mathbf{b}) \mathrm{Na}^{+}$			
	c) Ca <sup>++</sup>	<b>d</b> ) K <sup>+</sup>			
20.	The "fight or flight" response is the term used to	describe activation of the			
	a) Parasympathetic division	<b>b)</b> Sympathetic division			
	c) Somatic nervous system	d) CNS			
_	2 Long Answers (any 2 out of 3) (10 Mark Each)				
1.	Draw the neat labeled diagram of human heart and di	iscuss the conduction system of heart. Explain			
2	cardiac cycle.	es and functions of symmethetic and			
۷.	Classify peripheral nervous system and write Structur parasympathetic nervous system.	re and functions of sympathetic and			
3.	Discuss Organization of skeletal muscle and write ph	avsiology of muscle contraction.			
	Short Answers (any 7 out of 9) (5 Mark Each)	,	(35)		
	Write a short note on General principles of cell comm	nunication.	, ,		
2.	Discuss with neat labelled diagram neuromuscular junction.				
3.	Draw a neat labelled diagram of human eye and also				
4.	Write a note on structure, location and functions of epithelial tissue.				
5.	Discuss the Regulation of blood pressure.				
6.	Explain the lymph circulation and functions of lymphatic system.				
7.	Write a short note on Reticular endothelial system.	•			
8.	Explain in brief Structure and functions of skin.				
9.	Write a note on composition and functions of blood and define hemopoeisis.				