

PARUL UNIVERSITY
FACULTY OF PHARMACY
B. Pharm. Winter 2019 - 20 Examination

Semester: 1

Date: 03/12/2019

Subject Code: BP101T

Time: 10:00 am to 1:00 pm

Subject Name: Human Anatomy And Physiology-I

Total Marks: 75

Instructions:

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 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
2. The period between two successive cell divisions is called.....

a) Duplication	b) Growth phase
c) Cell cycle	d) Interphase
3. The following tissue is a proper connective tissue

a) cartilage	b) lymph
c) adipose tissue	d) blood
4. Identify the vessel below that is NOT a part of the circulatory system :

a) Artery	b) Capillary
c) Bronchiole	d) Vein
5. Which of the following is not part of axial skeleton?

a) Sternum	b) Mandible
c) Humerus	d) Sacrum
6. Stimulation of the sympathetic N.S. causes:

a) Contraction of the ciliary muscle for near vision..	
b) Mostly generalized actions affecting many systems	
c) Bronchoconstriction.	
d) Decreased glycogenolysis & lipolysis.	
7. The pH of Human Blood is _____.

a) 7.2	b) 7.4
c) 7.6	d) 6.8
8. Insufficient blood supply in human body is referred as

a) Ischemia	b) Hyperemia
c) Hemostasis	d) Hemorrhage
9. Which of the following is example of positive feedback mechanism?

a) Baroreflex in blood pressure regulation	b) Blood glucose regulation
c) Oxytocin release during child birth	d) all of the above
10. Diastolic pressure is:

a) Maximum pressure during ventricular diastole	
b) Minimum pressure during ventricular diastole	
c) Maximum pressure during Atrial diastole	
d) Minimum pressure during Atrial diastole	
11. The system that controls smooth muscle, cardiac muscle, and gland activity is the:

a) Somatic nervous system.	b) Autonomic nervous system.
c) Skeletal division	d) Sensory nervous system
12. _____ is the largest organ of the body.

a) leg.	b) ear.
c) Heart	d) skin
13. The pericardium is the double sac membrane that:

a) encloses the heart	b) line the aorta
-----------------------	-------------------

- c)) makes up the heart valves
- d) is found only in the capillaries
14. The T wave of an electrocardiogram represents which event?
- a) ventricular depolarization
- b) atrial repolarization
- c) ventricular repolarization
- d) atrial depolarization
15. The first heart sound is caused by closure of the _____ valves.
- a) pulmonary semilunar
- b) atrioventricular
- c) aortic semilunar
- d) mitral
16. Universal receivers can receive blood from
- a) Group AB only
- b) Group O only
- c) Group A,AB
- d) Group O,A,B,AB
17. The somatic nervous system is part of the:
- a) Sympathetic nervous system.
- b) Parasympathetic nervous system
- c) Autonomic nervous system.
- d) None of the above.
18. Ions of which of the following minerals play an important role in blood clotting?
- a) Mg^+
- b) Na^+
- c) Ca^{++}
- d) K^+
19. The volume of blood present in adult human is...
- a) 1 liter
- b) 2 liters
- c) 5 liters
- d) 10 liters
20. Which of the following cells does not exhibit phagocytic activity
- a) Monocyte
- b) Neutrophil
- c) Basophil
- d) Macrophage

Q.2 Long Answers (any 2 out of 3) (10 Mark Each)

(20)

1. Explain Renin-Angiotensin system and its significance. Explain Electrocardiogram (ECG) and its components.
2. Classification of peripheral nervous system. Draw and write in detail about retinal cells.
3. Describe in detail mechanism of blood coagulation also mention all clotting factors.

Q.3 Short Answers (any 7 out of 9) (5 Mark Each)

(35)

1. Write a note on Blood groups determination.
2. Explain mechanism & electrophysiology of cell membrane and also explain any one transport mechanisms.
3. Write the difference between sympathetic and parasympathetic nervous system.
4. Write a note on balancing system of our body.
5. Discuss the types of joints.
6. Explain the functions and organization of Epithelial and Connective tissues.
7. Write a note on conduction system of heart.
8. Classify joints and explain any two disorders of joints.
9. Write a note on origin of the cranial nerves from brain.