



Avinashilingam Institute for Home Science and Higher Education for Women
 (Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
 Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
 Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – March 2021
I Semester

Class : I UG
Major : Physician Assistant

Time : 3 Hours
Max. Marks: 100

18BPAC02 Physiology

Part A
Choose the Correct Answer

10 x 1 = 10

1. Cristae are associated with
 a. Mitochondria b. Cytoplasm c. Vacuole d. Ribosome
2. The synovial joint are also known as _____.
 a. Megablast b. Periosteum c. Diarthrosis d. Arthrois
3. Which blood cells secretes antibody?
 a. Eosinophils b. Monocytes c. Lymphocytes d. Neutrophils
4. The tiny air sacs present in human lungs is called _____.
 a. Alveoli b. Bronchus c. Bronchioles d. All the above
5. In the presence of ADH, The distal nephron is least permeable to :
 a. water b. ammonia c. urea d. sodium
6. Reabsorption of Na⁺ :
 a. takes place in association with CL⁻ & HCO₃⁻
 b. occurs only in PT
 c. is under control of parathormone hormone
 d. is a passive process
7. A blockage within the heart arteries caused by the death of heart muscle cells is known as:
 a. an embolism b. an infarct c. an abscess d. a trachanter
8. The maximum volume of air contained in the lung by a full forced inhalation is called _____.
 a. Tidal volume b. Vital capacity
 c. Ventilation rate d. Total lung capacity
9. Glycocalyx is associated with _____.
 a. Cell wall b. Plasma membrane c. Nucleus d. Ribosomes
10. Hemoglobin is a _____.
 a. Reproductive pigment b. Respiratory pigment c. Carbohydrate d. Protein

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Structure of cell and its components and functions.
(or)
11.b. Write about five type of joint movement and functions.
- 12.a. What is blood, and its groups?
(or)
12.b. Explain Cardiac Pacemaker.
- 13.a. Explain about the Conduction system of heart.
(or)
13.b. Explain about the Pulmonary Function Test.
- 14.a. Explain about Blood Transfusion.
(or)
14.b. Explain about the Mechanism of respiration.
- 15.a. Explain Mastication and Deglutition.
(or)
15.b. Describe the functions of Kidney, ureter, urethra and urinary bladder.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. ECG-Explain.
(or)
16.b. Explain Cardiac output and its regulation.
- 17.a. Blood formation, composition and Types of blood groups.
(or)
17.b. Describe the Phases of Cardiac cycle.
- 18.a. Respiration and Non Respirational functions of Lung.
(or)
18.b. Exchange of gases, transport of oxygen and carbondioxide in blood.
- 19.a. Composition, phases of secretion, functions of gastric secretion.
(or)
19.b. Formation of Urine, Filtration and Reabsorption.
- 20.a. Hemoglobin Structure, Synthesis, breakdown and normal range in adult, child and New born.
(or)
20.b. Write an essay about Blood pressure.
