

SI.No.M21228

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**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**

**(Deemed to be University)**

**B.Sc(ALLIED HEALTH SCIENCES) & M.Sc(INTEGRATED PROGRAM IN  
CARDIAC TECHNOLOGY) DEGREE EXAMINATIONS - September 2021**

**First Year**

**PHYSIOLOGY**

Three Hours

Maximum: 75 marks

**SECTION - A**

**I. Choose the Best Answer :**

**(10 x 1 = 10)**

1. Maintenance of constancy of the internal environment is \_\_\_\_\_.  
a) Homeostasis. b) Hemostasis. c) Hypoxia. d) Hypercapnia.
2. The largest WBC is \_\_\_\_\_.  
a) Neutrophil. b) Monocyte. c) Eosinophil. d) Basophil.
3. Daily salivary secretion is about \_\_\_\_\_.  
a) 500mL. b) 1200 mL. c) 750mL. d) 2500 ML.
4. Ureter is the continuation of \_\_\_\_\_.  
a) Pelvis. b) Pyramid. c) Cortex. d) Bowman's capsule.
5. Antidiuretic hormone is a \_\_\_\_\_.  
a) Glycolipid. b) Polypeptide. c) Steroid. d) Lipoprotein.
6. FSH is secreted from \_\_\_\_\_.  
a) Anterior pituitary b) Posterior pituitary c) Ovary d) Placenta
7. Muscles of inspiration include all except \_\_\_\_\_.  
a) Diaphragm. b) External intercostals.  
c) Sternocleidomastoid. d) Internal intercostals.
8. In pulmonary circulation, the blood is pumped from \_\_\_\_\_.  
a) Right atrium. b) Right ventricle. c) Left atrium. d) Left ventricle.
9. Nissl granules are found in neuron except in \_\_\_\_\_.  
a) Cell body. b) Axon hillock. c) Cytoplasm. d) Endoplasmic reticulum.
10. The normal intraocular pressure is \_\_\_\_\_.  
a) 0-15 mmHg. b) 5-6 mm Hg. c) 10-20 mm Hg. d) 10-20 cm Hg.

**II. Write Short Answers on any FIVE of the following:**

**(5 x 5 = 25)**

11. Plasma Protein and its function.
12. Diuretics.
13. Gigantism.
14. Functions of progesterone.
15. Chloride shift.
16. ECG.
17. Blood brain barrier.

**III. Write Short Essays on any TWO of the following:**

**(2 x 10 = 20)**

18. Describe the structure and explain the molecular basis of contraction of skeletal muscle.
19. Explain in detail of Leucopoiesis with diagram.
20. Explain detail about urine formation.
21. Define cardiac output and explain the various factors controlling it.

**IV. Write Essays on any ONE of the following:**

**(1 x 20 = 20)**

22. Describe the composition, functions and regulation of gastric secretion and its applied aspect.
23. Describe the nuclei, and functions of hypothalamus.

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