

Sl.No. M19281a

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VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)

B.Sc (ALLIED HEALTH SCIENCES) DEGREE EXAMINATION – August 2018

FIRST YEAR
PHYSIOLOGY

Three Hours

Maximum: 75 marks

I. Choose the Best Answer.

(10 X 1 =10)

1. Cell drinking is also known as _____.
a) Phagocytosis b) Pinocytosis c) Exocytosis d) Endocytosis.
2. Blood group antigens are present on _____.
a) RBCs b) WBCs c) Platelets d) Hemoglobin.
3. The major site of vitamin B12 absorption is:
a) stomach b) duodenum c) jejunum d) ileum .
4. The normal filtration fraction is _____.
a) 20% b) 30% c) 60% d) 75%.
5. Total number of parathyroid glands present in human is _____.
a) 1 b) 2 c) 3 d) 4.
6. Normal menstrual flow is around _____.
a) 50 mL b) 250 mL c) 350 mL d) 1.5 L.
7. The normal respiratory rate is _____.
a) 6-8 cycles/min b) 12-16 cycles/min c) 30-40 cycles/min d) 72 cycles/min.
8. In systemic circulation, the blood reaches _____.
a) Right atrium b) Right ventricle c) Left atrium d) Left ventricle.
9. Dorsal column tracts carry the following sensation except _____.
a) Pain b) Touch c) Pressure d) Vibration.
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. Erythroblastosis foetalis.

12. Blood supply to the kidney.
13. Oxytocin.
14. Composition of semen.
15. Dead Space.
16. Heart sounds .
17. Properties of nerve fibers.

III. Write Short Essays on any TWO of the following. (2 x 10 = 20)

18. Describe in detail the different mechanisms of transport across the cell membrane.
19. Give an account of the physiology of neuromuscular transmission in skeletal muscle.
20. Describe the composition, functions and regulation of pancreatic secretion and its applied aspect.
21. Trace the Auditory Pathway.

IV. Write Essays on any ONE of the following. (1 x 20 = 20)

22. Describe the site of production, developmental stages and factors influencing the formation of red blood cells. Add a note on the life span and fate of red blood cells.
23. Classify the hormones secreted by adrenal cortex. Formation, synthesis, storage, function and regulation of cortisol. Add a note cushing syndrome.
