Course Code:
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VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.Sc(ALLIED HEALTH SCIENCES) & M.Sc (Integrated Programs in Cardiac Technology) DEGREE EXAMINATIONS -August 2019
First Year
PHYSIOLOGY

Three Hours   Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :   **(10 x 1 = 10)**

1. Transport of sodium and glucose is on example of _____.
   a) Antiport.   b) Symport.   c) Uniport.   d) Diffusion.

2. Life span of an RBC is _____.
   a) 100 days.   b) 102 days.   c) 120 days.   d) 135 days.

3. Digestion of fats does not take place in _____.
   A) the stomach.   C) the duodenum.
   B) the mouth.   D) the ileum.

4. The hormone produced from the kidney is _____.
   a) Gastrin.   b) Erythropoietin.   c) Aldosterone.   d) ADH.

5. Adrenal cortical hormones are _____.
   a) Steroids.   b) Polypeptides.   c) Glycolipids.   d) Carbohydrates.

6. GnRH is secreted from _____.
   a) Anterior pituitary.   b) Posterior pituitary.
   c) Hypothalamus.   d) Ovary.

7. Normal tidal volume is _____.
   a) 300 mL.   b) 500 mL.   c) 700 mL.   d) 1000 mL.

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 also called _____.
   a) Tigroid bodies.   b) Carotid body.   c) Neuroglia.   d) Betz cells.

10. Astigmatism is corrected by _____.
    a) Concave lens.   b) Convex lens.   c) Cylindrical lens.   d) Bifocal lens.

II. Write Short Answers on any FIVE of the following: **(5 x 5 = 25)**

11. B lymphocytes and immunity.
12. Micturation Reflex.
13. Gigantism.
14. Functions of oestrogen.

(p.t.o)

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15. Cyanosis.
16. Triple response.
17. Pain pathway.

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

18. Give an account of the physiology of neuromuscular transmission in skeletal muscle.
19. Explain the Haemostasis and add a note on Bleeding disorders.
20. Define a nephron. Mention the parts, structure and its functions with a neat diagram. Add a note on the non excretory functions of the kidney.
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 various nuclei, connections and functions of the thalamus. Add a note on thalamic syndrome.

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