

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

**DIPLOMA IN MEDICAL LAB TECHNOLOGY EXAMINATION**

**August 2019**

**First Year**

**PHYSIOLOGY**

Time: Three hours

Maximum: 75 marks

**I. Write an essay on any ONE of the following: (1 x 20 = 20)**

1. Describe the structure and explain the molecular basis of contraction of skeletal muscle.
2. Describe the reaction between haemoglobin and oxygen. Illustrate the oxygen-haemoglobin dissociation curve and discuss the factors that affect the affinity of haemoglobin for oxygen.

**II. Write short notes on any TWO of the following: (2 x 10 = 20)**

3. Explain in detail of Leucopoiesis with diagram
4. Explain the Deglutition stages and its regulation.
5. Explain detail about urine formation
6. Hypothalamo – hypophyseal tract

**III. Write short answers on any SEVEN of the following: (7 x 5 = 35)**

7. Rigor mortis
8. Pancreatic juice.
9. Apoptosis NMJ
10. Plasma Protein and its function
11. Gastric motility
12. Functions of the liver
13. Blood supply to the kidney
14. Renal function tests
15. Gigantism