

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

**DIPLOMA IN OPERATION THEATRE TECHNOLOGY AND  
ANAESTHESIA TECHNOLOGY EXAMINATION**

**March 2019**

**Second Year**

**APPLIED ANATOMY AND PHYSIOLOGY**

Time: Three hours

Maximum: 75 marks

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

1. Explain in detail about the distribution and composition of body fluids.
2. Explain in detail about the types, composition and indications of IV fluids. Add a note on IV cannulation.

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

3. Write about the coronary circulation and add a note on myocardial infarction.
4. Transport of carbon dioxide.
5. Explain the respiratory changes under anesthesia.
6. Write in detail about the blood storage, administration and complications and mismatched blood transfusion.

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

7. Electrocardiogram.
8. Vital capacity.
9. Pulmonary oedema.
10. Compliance.
11. Pulmonary hypertension.
12. Lung function test.
13. Conduction system of heart.
14. Hypoxia.
15. Respiratory muscles.
16. Lung volumes.

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