

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

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

**February 2020
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. Draw a neat labelled diagram of respiratory system. Explain in detail about the muscles involved in inspiration and expiration.
2. Write the composition of various types of IV fluids and explain about the administration of IV fluids.

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

3. Transport of oxygen.
4. Cardiovascular response to anesthetic procedure.
5. Define Hypoxia. Explain its types
6. Explain blood grouping. Write in detail about the complications of mismatched blood transfusion.

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

7. Surfactants.
8. Dead space.
9. Conduction system of heart.
10. Bronchopulmonary segments.
11. Cardiopulmonary resuscitation.
12. Acid base balance.
13. Myocardial infarction.
14. Vital capacity.
15. ECG.
16. Pulmonary edema.