

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

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

**August 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 various types, composition and indications of IV fluids. Add a note on IV cannulation.
2. Draw a neat labeled diagram of chambers of heart with major blood vessels. Add a note on conduction system of heart.

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

3. Transport of Carbon-di-oxide.
4. Explain blood grouping and explain the complications of mismatched blood transfusion.
5. Explain respiratory changes under anaesthesia.
6. Layers of respiratory membrane. Add a note on surfactant.

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

7. Cardio pulmonary resuscitation.
8. Pulmonary circulation
9. Composition of Body fluids.
10. Vital Capacity
11. Cardiac Output
12. Dead Space
13. Bronchopulmonary segments
14. Lung Function test
15. Pleura
16. Intercostal Muscles