

**VINAYAKA MISSIONS UNIVERSITY, SALEM**  
**B.Sc. (Perfusion Technology) DEGREE EXAMINATION**  
**August 2017**  
**Second Year**

**INTRODUCTION TO PERFUSION TECHNOLOGY**

Time: Three hours

Maximum: 75 marks

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

1. a) What are the concepts of monitoring? b) What are the different types of monitoring? c) Add a note on aseptic technique. D) Briefly outline the cardiac surgery team and the scope of perfusion technology.
2. Describe in detail the various types of oxygenators.

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

3. Echocardiography and angiography
4. Cardio-pulmonary by pass.
5. Various types of blood pumps.
6. Cardioplegia delivery system.

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

7. Blood components
8. Arterial and venous cannulae
9. Ideal blood pump
10. Bubble trap
11. Nuclear cardiology
12. Azygous flow principle
13. Acid-base status
14. Extra corporate circulation
15. Blood failure
16. Vents.