

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

**B.SC. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION
September 2021
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. The blood pumps that are used currently.
2. Materials that are used in CPB circuits.

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

3. The significance of azygous flow principle.
4. Maintenance of acid base status on CPB.
5. Maintenance of aseptic technique during CPB.
6. Rated flow ; defoaming agent in oxygenator.

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

7. Fibrillators – where it is used?
8. Disc oxygenator (kay cross)
9. Blood banking
10. Dr. John Gibbons
11. Materials used in heat exchangers
12. Composition of blood
13. The role of platelets
14. Shear stress and shear rate
15. Bubble trap
16. Composition of cardioplegia.