

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

**B.SC. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION
AUGUST 2019
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. What are the materials used in EXTRA – CORPOREAL CIRCUITS?
2. What is meant by cardio plegia and how is it delivered to the patient?

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

3. What is controlled cross circulation? Explain.
4. What are the precautions do you follow in an arterial cannulation?
5. The importance of Blood Banking in Cardiac surgery.
6. Write about non occlusive and occlusive pumps.

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

7. How will you calculate the BSA and blood flow rate?
8. Arterial line filter.
9. Cerebral protection.
10. Measurement of respiratory gases.
11. Myocardial preservation.
12. Defibrillators.
13. The types of connectors used in CPB.
14. Principle of a bubble oxygenator.
15. Vents and cardiotomy sucker.
16. Anticoagulants used in cardiopulmonary bypass.