

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

**B.SC. (PERFUSION TECHNOLOGY) DEGREE
EXAMINATION – February 2020
Third Year**

PERFUSION TECHNOLOGY - CLINICAL

Time: Three hours

Maximum: 75 marks

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

1. Write an essay on commonly used Priming Fluids in CPB.
2. Various cannulation methods in CPB.

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

3. Complications of cardioplegia.
4. Extracellular and Intracellular cardioplegia - difference.
5. Principles and materials used in Heat - Exchanger.
6. Pulsatile Perfusion.

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

7. Management of Reperfusion INJURY.
8. The solutions that help in maintaining colloidal osmotic pressure.
9. How are membrane oxygenators different from bubblers?
10. What is meant by Vasomotion?
11. Cardioplegia delivery systems.
12. Sodium nitro Prusside (NIPRIDE).
13. What is 'HOT SHOT'?
14. Why defoamers are used in bubble oxygenators?
15. Venous drainage management in minimally invasive cardiac surgery.
16. Non cardioplegic cardiac surgery.