

**VINAYAKA MISSION'S RESEARCH FOUNDATION (DU), SALEM
B.SC (PERFUSION TECHNOLOGY) DEGREE EXAMINATION -
SEPTEMBER 2021**

Third Year

PERFUSION TECNOLOGY - CLINICAL

Three Hours

Maximum: 75 marks

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

1. Write a note on common cardiac drugs
2. Distinguish Crystalloids vs Colloids as priming solution for bypass.

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

3. Materials used in Heat Exchanger and modes of heat transfer.
4. Biocompatible materials.
5. Significance of Pulsatile Perfusion.
6. Characteristics features of ideal oxygenator.

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

7. Antifibrinolytic drugs that are used in CPB.
8. Cannula and Tubing selection.
9. Treatment for acidosis and alkalosis in CPB.
10. The advantage of Pulsatile flow.
11. What is post perfusion syndrome?
12. What is meant by pressure drop in a membrane oxygenator?
13. The vasodilators and vasoconstrictors used in bypass
14. Cardiomy suckers.
15. Explain Respiratory Acidosis with an example.
16. Write about the sites of venting.

20)

20)

5)