

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

**B.Sc. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION**  
**March 2019**  
**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. Types of MEMBRANE Oxygenator.
2. MYOCARDIAL PROTECTION.

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

3. Drugs mostly used by perfusionist.
4. Precautions followed when coming OFF Bypass.
5. Haemodilution.
6. Bubble oxygenator and its inventors.

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

7. Adequacy of CPB.
8. The principles of heat- exchanger and materials used.
9. The advantages of pulsatile flow.
10. CRYSTALLOID CARDIOPLEGIA.
11. Anti- fibrinolytic drugs used on CPB.
12. Vasodilators used on CPB.
13. Diuretics used during CPB.
14. What is Reperfusion injury?
15. Non cardioplegic methods of cardiac surgery.
16. MANNITOL.

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