Sl.No.M21169 Course Code: 3210301

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

# B.Sc. (Perfusion Technology) DEGREE EXAMINATION September 2021 Third Year

### PERFUSION TECHNOLOGY - CLINICAL

Time: Three hours Maximum: 75 marks

#### I. Write an essay on any ONE of the following:

 $(1 \times 20 = 20)$ 

- 1. Conduct of CPB methodology.
- 2. Membrane oxygenator.

#### II. Write short notes on any TWO of the following:

 $(2 \times 10 = 20)$ 

- 3. Types of cannulae used in CPB.
- 4. The benefits of pulsatile flow
- 5. Priming fluids used in CPB.
- 6. Why is heat exchanger used in the circuit?

#### III. Write short answers on any SEVEN of the following:

 $(7 \times 5 = 35)$ 

- 7. Reperfusion injury and its management.
- 8. Name some vasodialators and vasoconstrictors used on CPB.
- 9. Why is protamine given?
- 10. Write short notes on types of cardioplegia.
- 11. What is meant by shunting during bypass?
- 12. How are coated membrane oxygenators helpful?
- 13. Anti-inflammatory drugs.
- 14. The additives used in cardioplegia.
- 15. Write on hypothermia and its purpose.
- 16. The steps followed when coming off bypass.