Sl.No.M21701 Course Code: 3210301

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

B.SC. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION August 2019 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. The method that you follow while coming off bypass.
- 2. Cardioplegia their types and methods of delivery.

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

 $(2 \times 10 = 20)$

- 3. Heparin, its action site and monitoring during CPB.
- 4. The priming fluids used in CPB.
- 5. The function, principles and purpose of heat exchanger.
- 6. The various types of membrance oxygenators.

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

 $(7 \times 5 = 35)$

- 7. Pulsatile perfusion and its benefits.
- 8. Adequacy of perfusion microvascular circulation.
- 9. Anti-inflammatory agents.
- 10. What is reperfusion injury? How can it be managed?
- 11. Mannitol.
- 12. Protamine.
- 13. Non-cardioplegic cardiac surgery on CPB.
- 14. Write about the merits and demerits of haemodilution.
- 15. Bubble oxygenator.
- 16. What are the normal cannulation sites for CPB?