Sl.No.M19300 Course Code: 3210302

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

B.Sc. (Perfusion Technology) DEGREE EXAMINATION August 2018 Third Year

PERFUSION TECHNOLOGY- APPLIED

Time: Three hours Maximum: 75 marks

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

 $(1 \times 20 = 20)$

- 1. How could the patient's blood be conserved during CPB?
- 2. Write an essay on IABP. On what basis are the various sizes of IAB catheters chosen?

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

 $(2 \times 10 = 20)$

- 3. How can CPB contribute to coagulopathy?
- 4. How are heparinless bypass helpful?
- 5. How can embolic events be prevented during CPB?
- 6. The role of ultrafiltration in CPB.

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

 $(7 \times 5 = 35)$

- 7. Write about cell saver with a suitable diagram.
- 8. How can CPB cause DIC, how can it be prevented?
- 9. What are the possible dangers of adding bank blood on CPB?
- 10. Write an essay on the haemoconcentrate filter?
- 11. How are the lungs and splanchnic organs affected by SIRS?
- 12. What is antithrombin III deficiency? How can it be managed on CPB?
- 13. What are the physical forces that cause trauma to the blood components?
- 14. How is anticoagulation monitored during CPB?
- 15. Write few lines on arterial filters used in CPB.
- 16. What are the adverse effects of protamine sulphate?