

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

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

PERFUSION TECHNOLOGY - APPLIED

Time: Three hours

Maximum: 75 marks

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

1. Write an essay on IABP, indications and contra-indications.
2. Anti-coagulation during CPB and its monitoring.

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

3. Cell-saver and its uses.
4. Contribution of CPB to coagulopathy
5. Ultrafiltration on CPB
6. Heparinless by pass.

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

7. Antithrombin – III deficiency and its management.
8. The types of emboli.
9. Physical forces that causes trauma.
10. Transfusion – related dangers.
11. Protamine reaction and its management.
12. The gas used in IABP, why is it used?
13. What are VADs?
14. What is platelet aggregation, adhesion?
15. What is HIT?
16. Arterial filter.