

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

**B.SC. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION –
February 2020
Third Year**

PERFUSION TECHNOLOGY - ADVANCED

Time: Three hours

Maximum: 75 marks

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

1. How will you conduct a safe CPB.
2. ECMO – types, patient selection and materials used.

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

3. Mention some recent advances in CPB.
4. Fluid management in paediatric CPB.
5. Briefly explain p^H stat.
6. DIC – Contributing factors and its prevention on CPB.

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

7. Vacuum assisted venous drainage – Explain.
8. Few lines about experimental perfusion.
9. In – line monitoring – how is it useful in Paediatric CPB.
10. Maintenance of colloidal oncotic Pressure in Paediatric perfusion.
11. Perfusion in non – cardiac cases.
12. Disadvantages of deep hypothermia.
13. Femero – Femoral bypass – its management.
14. Explain intraluminal and extraluminal membrane oxygenators.
15. Alpha – stat.
16. ACT levels maintained in ECMO.