

Q.P. Code: 313016

Reg. No:.....

**Third Year B.Sc Perfusion Technology Degree Supplementary
Examinations August 2023**

Perfusion Technology - Advanced

Time: 3 hrs

Max. Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays:

(2x15=30)

1. Discuss CPB in aortic arch surgery in detail.
2. Discuss the monitoring and management of ECMO

Short notes:

(5x7=35)

3. Cannulation strategies in redo cardiac surgery
4. Miniaturization of CPB
5. Neurologic monitoring during DHCA
6. Substrate enhancement of cardioplegia
7. Safety alarms in CPB

Answer briefly:

(7x5=35)

8. Unusual haemolysis evaluation and management
9. Zero balance ultra-filtration
10. Controlled reperfusion
11. Cardioplegia for cardiac transplantation
12. Contraindications for IABP
13. Selective ante grade cerebral perfusion
14. Coagulopathies
