

Q.P. Code: 311016

Reg. No:.....

**Third Year B.Sc Perfusion Technology Degree Supplementary
Examinations August 2024**

Perfusion Technology – Clinical

(2016 Scheme)

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 table/diagrams/flow charts wherever necessary*

Essays:

(2x15=30)

1. Myocardial protection strategies in cardiopulmonary bypass
2. Discuss the different types of oxygenators used in cardiopulmonary bypass

Short notes:

(5x7=35)

3. Describe the different routes of cardioplegia administration. Give any two advantages and disadvantages for each route
4. Advantages and disadvantages of hemodilution in cardiopulmonary bypass
5. Alternatives to heparin in CPB anticoagulation
6. Enumerate different types of ultrafiltration- write briefly on each
7. Mixed venous saturation

Answer briefly:

(7x5=35)

8. Oxygenator failure- detection and management
9. Amiodarone
10. Occlusion in CPB
11. Describe the intrinsic and extrinsic coagulation pathway
12. Retrograde cerebral perfusion
13. Interrupted inferior vena cava
14. Temperature Control Machine (TCM)
