

Q.P. Code: 311016

Reg. No:.....

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

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. Discuss cardioplegia – its types, mechanism of action, duration and recent advances.
2. Describe various components of priming solutions and enumerate methods to minimize priming volume and hemodilution.

Short notes:

(5x7=35)

3. Pre-bypass checklist
4. Ischemic pre-conditioning
5. Assisted venous drainage
6. Retrograde cardioplegia
7. CPB in redo cardiac surgery

Answer briefly:

(7x5=35)

8. Alternatives to heparin
9. Delnido cardioplegia
10. Calcium paradox
11. Cell savers
12. Pulsatile pumps
13. Assessment of systemic vascular resistance
14. Controlled reperfusion
