

Q.P. CODE: 213016

Reg. No:

**Second Year B.Sc Perfusion Technology Degree Supplementary
Examinations July 2025**

**Introduction to Perfusion Technology
(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 diagrams wherever necessary*

Essays:

(2x15=30)

1. Discuss Myocardial protection in cardiac surgery
2. Hemodynamic monitoring during cardiopulmonary bypass

Short notes:

(5x7=35)

3. Depth filter versus screen filter
4. Management of increased arterial line pressure on cardiopulmonary bypass
5. Use of an aortic root vent
6. Femoral venous cannulation
7. Secondary cardioplegia

Answer briefly:

(7x5=35)

8. ECG and the perfusionist
9. Retrograde cardioplegia
10. Azygous flow principle
11. Daltons Law of partial pressures
12. Gas exchange across a membrane
13. Temperature probes
14. Tubing used in CPB
