

**Q.P. CODE: 213016**

**Reg. No: .....**

**Second Year B.Sc Perfusion Technology Degree Regular/Supplementary  
Examinations February 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. Compare and Contrast Bubble and Membrane Oxygenators
2. Discuss the biochemical basis of controlled reperfusion and how will you do it during a case

**Short notes:**

**(5x7=35)**

3. Level detectors
4. Management of hypercarbia on cardiopulmonary bypass
5. Use of a pulmonary artery vent
6. Vacuum assisted venous drainage
7. Calafiore technique of blood cardioplegia delivery

**Answer briefly:**

**(7x5=35)**

8. Venous Cannula
9. Defibrillator.
10. Abnormalities in ACT
11. Nasal temperature monitoring
12. Syringe Pump
13. Charles Law
14. Aseptic technique

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