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## Q.P. CODE: 213016

# Second Year B.Sc Perfusion Technology Degree Regular/Supplementary **Examinations February 2024**

# Introduction to Perfusion Technology

# (2016 Scheme)

### 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**:

Time: 3 Hrs

- 1. Discuss myocardial protection strategies in CPB. What are the components of St. Thomas Cardioplegia solution. Differentiate St. Thomas 2 CP from Del Nido CP.
- 2. Differentiate between membrane and bubble oxygenators. What are the essential components of a membrane oxygenator. What are specific differentiating features of oxygenators used in ECMO circuits

### Short notes:

- 3. Azygous flow principle
- 4. Hypothermia
- 5. Normal arterial blood gas analysis
- 6. Types of Blood pumps
- 7. Calafiore technique of blood cardioplegia delivery

### Answer briefly:

- 8. Arterial Cannula
- 9. Defibrillators
- 10. Defoaming
- 11. Venting in CPB
- **12.NIRS**
- 13. Boyles Law
- 14. Flow meters

Max. Marks:100

Reg. No: .....

(7x5=35)

(2x15=30)

(5x7=35)