

Q.P. Code: 311016

Reg. No:.....

**Third Year B.Sc Perfusion Technology Degree Regular/Supplementary Examinations February 2025**

**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 the principle of membrane oxygenator and its types. Add a note on oxygenator failure and management
2. Compare and contrast adult and paediatric perfusion

**Short notes:**

**(5x7=35)**

3. Causes of emboli during a pump run and steps to prevent these events
4. Propofol
5. Heparin Resistance
6. Screen filters used in cardiopulmonary bypass circuit
7. Massive Transfusion - prevention, complications and management

**Answer briefly:**

**(7x5=35)**

8. Sweep gas flow
9. Heat Exchanger complications and management
10. Coagulopathies due to CPB and its management
11. Augmented venous drainage
12. Right heart assist devices
13. Sites of venous cannulation for cardiopulmonary bypass
14. Frank Starling Law

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