

**Q.P. Code: 312016**

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

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

**Perfusion Technology - Applied**

**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. Systemic inflammatory response syndrome after cardiopulmonary bypass- Discuss the pathogenesis and measures to reduce it
2. Evolution of Oxygenators

**Short notes:**

**(5x7=35)**

3. Heparin analogues
4. Centrifugal pump
5. "True" vs "False" Membrane
6. Cell savers
7. Protamine reaction

**Answer briefly:**

**(7x5=35)**

8. Extrinsic coagulation pathway
9. Activated clotting time
10. Lactic acidosis
11. Sodium channel blockers
12. Elimination half time
13. Beta-1 receptors of heart
14. Zero- Balance ultrafiltration

\*\*\*\*\*