

Q.P. Code: 312016

Reg. No:.....

**Third Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2023**

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. Describe the techniques of blood conservation on CPB. What is cell saver. What are effects of CPB on blood cells.
2. Explain systemic immune response syndrome. What are the pathophysiological changes in the body in response to CPB. Mention the effects of CPB on the brain and lungs.

Short notes:

(5x7=35)

3. Ventricular assist devices
4. Causes of emboli during a pump run and methods to limit these events
5. What are the causes of bleeding after a pump run
6. What are reverse autologous priming and isovolemic haemodilution
7. Tranexamic acid

Answer briefly:

(7x5=35)

8. IABP
9. Heparin bonded circuits
10. Platelet dysfunction post CPB
11. Mismatched blood transfusion
12. Aprotinin
13. Mechanism of action of heparin
14. Frank Starling Law
