

Q.P. Code: 312016

Reg. No:.....

**Third Year B.Sc Perfusion Technology Degree Supplementary
Examinations August 2024**

**Perfusion Technology – Applied
(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. Discuss the Mechanical Circulatory Support (MCS) devices for cardiogenic shock.
2. Anticoagulation on cardiopulmonary bypass, monitoring, reversal and complications.
Discuss heparin free bypass.

Short notes:

(5x7=35)

3. Platelet dysfunction in cardiopulmonary bypass
4. Transfusion Related Acute Lung Injury (TRALI)
5. Hemolysis in cardiopulmonary bypass
6. Methods to decrease the inflammatory response to cardiopulmonary bypass
7. Hazards of extracorporeal circulation

Answer briefly:

(7x5=35)

8. Filters used in cardiopulmonary bypass
9. Activated Partial Thromboplastin Time (APTT)
10. Lignocaine
11. Bivalirudin in cardiopulmonary bypass
12. Bubble oxygenator
13. Conventional ultrafiltration
14. Cardiopulmonary bypass considerations in Haemophiliacs
