

Q.P. Code: 313016

Reg. No:.....

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

Perfusion Technology – Advanced

(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. Ventricular assist devices
2. Describe the conduct of cardiopulmonary bypass for total circulatory arrest for Type A. Aortic dissection repair

Short notes:

(5x7=35)

3. Centrifugal pump
4. Retrograde cerebral perfusion
5. Intra-Aortic Balloon Pump
6. Veno-venous ECMO
7. Micro-embolism during cardiopulmonary bypass

Answer briefly:

(7x5=35)

8. Venous drainage of the heart
9. Cardioplegia delivery in ALCAPA
10. Substrate enhanced cardioplegia
11. Steps in initiation of cardiopulmonary bypass
12. Donation after cardiac death
13. Counter-current mechanism
14. Percutaneous venous cannula

CORRECTION / NO-CORRECTION FILE
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QPCODE: 313016

Dated: 05-12-2025

Question No.12

Replaced with "Perfusion challenges in minimally invasive cardiac surgery."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS