

Q.P. Code: 313016

Reg. No:.....

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

Perfusion Technology - Advanced

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 perfusion management of arch aneurysms.
2. Compare and contrast adult and paediatric perfusion.

Short notes:

(5x7=35)

3. Perfusion for oncological indications.
4. CPB considerations for cardiac surgery in sickle cell anaemia.
5. Perfusion considerations in open heart surgery in pregnant women on CPB.
6. Oxygenator failure
7. Importance of protocols in perfusion technology.

Answer briefly:

(7x5=35)

8. Endoaortic balloon cannulae
9. Brain protection during arch surgery.
10. Single shot cardioplegia's
11. Recent advances in perfusion techniques.
12. Cannulation issues in aortic dissection surgery.
13. Self-expanding venous cannulae.
14. Safety devices used in CPB circuit
