

Q.P.Code: 303016

REG. No:.....

Third Year B.Sc Perfusion Technology Degree Examinations August 2017

Time: 3 hrs

Max. Marks:- 100

Perfusion Technology - Advanced

- ***Answer all the questions***
- ***Draw diagrams wherever necessary***

Essays: (2x15=30)

1. What is deep hypothermic circulatory arrest (DHCA). What are the steps taken to limit brain damage. Enumerate spinal protection strategies in DHCA.
2. Describe the cannulation strategies in a case of minimally invasive aortic valve replacement. Mention the advantages and disadvantages of endo aortic clamping. What are safeguards to be taken with regard to safe conduct of CPB in MICS.

Short notes: (5x7=35)

3. Inline blood gas monitoring during CPB
4. Delnido cardioplegia
5. Non cardiac uses of CPB
6. Advantages of coated CPB circuits
7. Cell salvage

Answer briefly: (7x5=35)

8. Hemofiltration
9. Activated clotting time
10. Neonatal CPB
11. Nitric oxide
12. Foetal circulation
13. Congeners of heparin
14. Venting in CPB
