Reg. No:....

Third Year B.Sc Perfusion Technology Degree Examinations July 2018

Perfusion Technology – Applied

Time: 3 hrs

- Answer all the questions
- Draw diagrams wherever necessary

Essays:

(2x15=30)

- Describe the principles of cardioplegia. What are the different cardioplegia solutions. Mention the beneficial additives in cardioplegia. Enumerate the differences between standard CP delivery system and calafiore technique.
- 2. What are the causes of difficult weaning from CPB (ie post cardiotomy cardiogenic shock). What corrective solutions can be taken to assist CPB weaning. What is the principle behind IABP. Mention the advantages and disadvantages of ECMO usage in post cardiotomy cardiogenic shock.

Short notes:

- 3. Blood conservation strategies in CPB
- 4. SIRS
- 5. Management of protamine reaction
- 6. Methods to reduce immune response to CPB
- 7. Haemodialysis and hemofiltration

Answer briefly:

- 8. Arterial filter
- 9. Heparin less bypass
- 10. Post CPB arrhythmias
- 11. Post CPB coagulopathy
- 12. Steroids
- 13. Diagnosis and management of poor brain perfusion in CPB
- 14. Complications of blood transfusion

(7x5=35)

Max. Marks:- 100

(5x7=35)