

Q.P.Code: 303016

REG. No:.....

**Third Year B.Sc Perfusion Technology Degree Examinations,
September 2015**

Time: 3 hrs

Max. Marks:- 100

Perfusion Technology - Advanced

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

Essays: **(2x15=30)**

1. What is ECMO. Describe the indications, circuitry and monitoring of ECMO.
Differentiate between veno-arterial and veno-venous ECMO.
2. Describe the cannulation strategies in a case of minimally invasive aortic valve replacement. Mention the advantages and disadvantages of endo-aortic clamping.
What safeguards to be taken with regard to safe conduct of CPB in MICS.

Short notes: **(5x7=35)**

3. Mini bypass circuit
4. Delnido cardioplegia
5. Non cardiac uses of CPB
6. Left heart bypass and its uses
7. Cell saver

Answer briefly: **(7x5=35)**

8. Advantages of blood priming
9. Thromboelastogram
10. Neonatal CPB
11. Milrinone
12. Foetal circulation
13. Complications of heat exchangers
14. Sevoflurane
