

Q.P.Code: 303016

REG. No:.....

**Third Year B.Sc Perfusion Technology Degree Examinations,
August 2016**

Time: 3 hrs

Max. Marks:- 100

Perfusion Technology - Advanced

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

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

1. Discuss deep hypothermia and circulatory arrest in detail.
2. Discuss the perfusion accidents.

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

3. Indications for ECMO
4. Various Methods of Cardio Plegia Administration
5. Pulmonary endoventing in minimally invasive cardiac surgery.
6. Percutaneous cardiopulmonary bypass systems.
7. Reservoirless cardiopulmonary bypass.

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

8. Spinal cord protection during aortic surgery.
9. Describe recent advances in cannulae
10. Del nido cardioplegia
11. Recent advances in perfusion techniques.
12. Ante grade cerebral perfusion.
13. Ethical issues in animal experimentation.
14. Minimally invasive perfusion cannulae
