

**Q.P.Code:301016**

**REG. No:.....**

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

**August 2016**

**Perfusion Technology - Clinical**

**Time: 3 hrs**

**Max. Marks:- 100**

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

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

1. Discuss the monitoring of adequacy of perfusion during cardiopulmonary bypass.
2. Discuss myocardial protection during cardiopulmonary bypass

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

3. Aortic cannulation
4. Heat exchanger leak
5. Rated flow of an oxygenator
6. Predicted circulating haematocrit.
7. Two stage venous cannulation

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

8. List two drugs absorbed by the cardiopulmonary circuit.
9. Mixed venous saturation
10. Absolute contraindication for retrograde cardioplegia.
11. Classify Protamine reaction.
12. List four alternate sites to aortic cannulation.
13. Measurement of Heat exchanger efficiency.
14. Formula to calculate systemic vascular resistance on cardiopulmonary bypass.

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