

[LC 0212]

FEBRUARY 2013

Sub. Code: 1412

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY**

**SECOND YEAR**

**PAPER – II PRINCIPLES OF PERFUSION TECHNOLOGY - I**

*Q.P. Code : 801412*

**Time: Three hours**

**Maximum: 100 marks**

**Answer ALL questions.**

**I. Elaborate on:**

**(3 x 10 = 30 )**

1. Monitoring during Cardio Pulmonary Bypass - Physiological and Circuit variables.
2. Elaborate on Coagulation cascade.
3. Describe Complications of extracorporeal circulation.

**II. Write Notes on:**

**(8 x 5 = 40 )**

1. Anticoagulation.
2. Blood surface interface.
3. Biocompatible materials.
4. Factors affecting hemostasis during Cardio Pulmonary Bypass.
5. Priming solution.
6. Pre Cardio Pulmonary Bypass check list.
7. Cerebral protection during Cardio Pulmonary Bypass.
8. Temperature Management in Cardio Pulmonary Bypass.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Extra corporeal membrane oxygen.
2. Perfusion record.
3. Intra Aortic Balloon Pump.
4. Circuit alarms.
5. Hematocrit.
6. Aprotinin.
7. Roller pumps.
8. Filters and bubble traps.
9. Venting of the heart.
10. Priming volume.

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