

[LH 0815]

AUGUST 2015

Sub. Code: 1423

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

**PAPER III – CARDIO PULMONARY BYPASS AND ITS COMPLICATIONS
STERILE TECHNIQUES AND SURGICAL ASEPSIS MAINTENANCE**

Q.P. Code: 801423

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Surgical asepsis.
2. Check list before going on cardiopulmonary bypass.
3. Complications while initiating cardiopulmonary bypass.

II. Write notes on:

(8 x 5 = 40)

1. Heparin included thrombocytopenia.
2. Systemic air embolism.
3. Flow rates and desired cannula sizes.
4. Inadequate systemic oxygenation.
5. Periodic maintenance of heart lung machine.
6. High arterial line pressure while on cardiopulmonary bypass.
7. Coagulation Pathway.
8. Inadequate venous drainage while on cardiopulmonary bypass.

III. Short answers on:

(10 x 3 = 30)

1. Heparin management during cardiopulmonary bypass.
2. Liver function tests.
3. Hematuria causes and treatment.
4. Terminating bypass – complications and precautions.
5. ECG – Its significant to perfusionist.
6. Blood glucose.
7. Deep hypothermic circulatory arrest.
8. Assisted venous drainage.
9. Loss of electrical power during cardiopulmonary bypass.
10. Hemotherm design and its uses.
