[LK 0217]

FEBRUARY 2017

Sub. Code: 1422

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY THIRD YEAR PAPER II – CARDIOPULMONARY BYPASS & PERFUSION TECHNOLOGY

Q.P. Code: 801422		
Time: Three Hours		Maximum: 100 Marks
I.	Answer all questions Elaborate on:	$(3 \times 10 = 30)$
	 Hemodynamic aspects of Cardio Pulmonary Bypass. Induced Cardiac Arrest. Hypothermia. 	
II.	Write notes on:	$(8 \times 5 = 40)$
	 Coagulation cascade. Oxygen Toxicity. Biocompatible materials. Nervous Control of Heart. LV assist devices. Blood surface interface. Cerebral protection during Cardio Pulmonary Bypass. Priming solution. 	
III. Short answers on:		(10 x 3 = 30)
	1. Extra corporeal membrane oxygen.	
	2. Intra Aortic Balloon Pump.	
	3. Circuit alarms.	
	4. Hematocrit.	
	5. Auto transfusion.	
	 Roller pumps. Electrolyte imbelance 	
	7. Electrolyte imbalance.	

- 8. Venting of the heart.
- 9. Priming volume.
- 10. Gas transfer.