



ADMISSION NUMBER

## School of Medical and Allied Sciences

**B.Sc Cardiovascular Technology  
Semester End Examination - Aug 2024**

**Duration : 180 Minutes  
Max Marks : 100**

### Sem IV - L1UC401T - Perfusion Technology

General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

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|-----|---|--------|
| 1)  | What is vessel injury and hematoma formation?   | K1(2)  |
| 2)  | Illustrate the process of 'neutralization of the activity of heparin' in conducting the process of CPB .  | K2(4)  |
| 3)  | Interpret the monitoring devices and their function in a chart.   | K2(6)  |
| 4)  | Develop the idea about difference between atriocaval , atrial and bicaval vein cannulae.                  | K3(9)  |
| 5)  | Develop the idea about Intermittent ischemia and reperfusion (cross-clamp/fibrillation).                  | K3(9)  |
| 6)  | Evaluate the term Ischemic preconditioning and explain in details about it.                               | K5(10) |
| 7)  | Simplify the pathophysiology of hypothermia through a table.  | K4(12) |
| 8)  | Interpret the structure, mechanism and dosing of heparin.   | K5(15) |
| 9)  | Interpret the classification,principle contraindications and complications of Ventricular assist devices. | K5(15) |
| 10) | Modify the procedure in setting the CPB machine and circuit set up.                                       | K6(18) |