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School of Medical and Allied Sciences

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

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

Sem IV - L1UC401T - BCVT4006 Perfusion TechnologyGeneral 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

- 1) What was used as priming solution by John Gibbon in 1953? K1 (2)
- 2) Explain the differences between the bubble and membrane oxygenators used in the operation of heart as the alternate for lung. K2 (4)
- 3) Interpret the diagram of extrinsic and intrinsic clotting pathways. K2 (6)
- 4) Develop the complications that can happen due to inappropriate cannulation in CPB process. K3 (9)
- 5) Develop the Overview of systemic inflammatory response to CPB by a table. K3 (9)
- 6) Evaluate the idea of Monitoring anticoagulation status in the operating room. K5 (10)
- 7) Simplify and tell about the historical background of CPB. K4 (12)
- 8) Interpret the monitoring, dosing of heparin and also tell about the platelet reduction by heparin. K5 (15)
- 9) Interpret the important knowledge about different ways of cardioplegia delivery. K5 (15)
- 10) Discuss the take care of electrolytes in the conduct of CPB. K6 (18)