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**School of Medical and Allied Sciences**

**B.Sc Medical Lab Technology  
Mid Term Examination - May 2024**

**Duration : 90 Minutes  
Max Marks : 50**

**Sem II - L1UD202T - Basic Haematology**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*

- 1) Illustrate the important equipments used in hematology laboratory with suitable example K2 (2)
- 2) Recall the composition of blood. K1 (3)
- 3) Demonstrate the composition of blood with a flow chart. K2 (4)
- 4) Summarize and explain composition, function and normal cellular components of blood. K2 (6)
- 5) Apply your knowledge and tell us about the safety measures used in hematology laboratory. K3 (6)
- 6) Organize and explain the step by step process of erythropoiesis with help of a flow chart, detailing the formation of red blood cells from hematopoietic stem cells to mature erythrocytes. K3 (9)
- 7) Analyze the role of anticoagulants in hematology, discuss the different types available, how they work, and why certain anticoagulants are preferred for specific hematological studies. K4 (8)
- 8) Categorize the important equipment used in a hematology laboratory into groups based on their functions. Discuss the role of each group of equipment in conducting various hematological tests and analyses. K4 (12)

**OR**

Categorize the different types of anticoagulants used in hematology based on their mode of action. Discuss the advantages and disadvantages of each type of anticoagulant and explain their suitability for different hematological studies. K4 (12)