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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 IV - L1UD402T - Applied Haematology-IGeneral 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 process of preparing blood films for examination. K2 (2)
- 2) Recall and discuss normal and absolute values in hematology for Hb, PCV, TLC, and Platelets. K1 (3)
- 3) Demonstrate the procedure for determining the Absolute Eosinophil count using a haemocytometer. K2 (4)
- 4) summarize and explain the different methods to measure Hemoglobin, highlighting their merits and demerits. K2 (6)
- 5) Apply the knowledge of staining techniques in identifying different types of leukocytes K3 (6)
- 6) Organize and explain the various methods of blood film preparation, including Thick and Thin smear/film. K3 (9)
- 7) Analyze the significance of Erythrocyte Sedimentation Rate (ESR) in diagnosing and monitoring diseases K4 (8)
- 8) Categorize the different methods used for packed cell volume (PCV) or Hematocrit value determination, elaborating on their preparation techniques, advantages, and disadvantages. Explain the process of blood film preparation, detailing the types, methods (thick and thin smear/film), and their clinical utility. K4 (12)

OR

- Categorize the staining techniques used in hematology, focusing on Romanowsky's stains, and discuss their principles and compositions. K4 (12)