

PG CBCS
M.Sc. Semester-IV Examination, 2022
MEDICAL LABORATORY TECHNOLOGY (MLT)
PAPER: MLT 403C
(HAEMOGLOBINOPATHIES - II)

Full Marks: 40**Time: 2 Hours**

The figures in the right - hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

- 1. Answer any two questions:** **2×8=16**
- a) Discuss the causes, inheritance and pathophysiology and laboratory findings of haemophilia. (4+2+2)
 - b) Define chronic myeloid leukaemia. Discuss the pathophysiology and laboratory findings of CML. (2+3+3)
 - c) Explain the causes, pathophysiology and laboratory findings of DIC. (2+3+3)
 - d) Explain the mechanism of platelet activation, discuss the different qualitative platelet disorders. (4+4)

GROUP - B

- 2. Answer any four questions:** **4×4=16**
- a) Write short note on thrombocytosis. (4)
 - b) Mention the pathophysiology and laboratory findings of myelodysplastic syndrome. (4)
 - c) State about the laboratory identification of chronic lymphocytic leukaemia. (4)
 - d) Discuss the causes of thrombotic disorders. (4)
 - e) How bleeding disorders developed in case of vitamin K deficiency and liver disease. (4)
 - f) Give a brief idea about the pathophysiology and laboratory findings of plasma cell myeloma. (4)
 - g) Write the basic principle and clinical importance of activated partial thromboplastin time (APTT) and thrombin time (TT). (4)
 - h) Discuss the mechanism of fibrinolysis. (4)

GROUP - C

- 3. Answer any four questions:** **2X4 = 8**
- a) What do you mean by clot retraction? (2)
 - b) What do you mean by Philadelphia chromosome? (2)
 - c) Give the name of two drugs causing Drug-induced Thrombocytopenia. (2)
 - d) Causes of acute Immune Thrombocytopenic Purpura. (2)
 - e) Write the main cause of Glanzmann's disease? (2)
 - f) Write the name of the substances released by alpha granules of platelets? (2)
 - g) Classify leukemia. (2)
 - h) Write any two causes of leukemoid reactions? (2)

