

PG (CBCS)
M.Sc. Semester-I Examination, 2022
MLT
PAPER: MLT 102
(HAEMATOLOGY AND SEROLOGY)

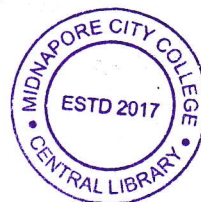
Full Marks: 40

Time: 2 Hours

GROUP-AAnswer any **FOUR** questions

4X2=8

1. Mention the sites of haem synthesis in premature red cells.
2. What do you mean by anisocytosis and poikilocytosis?
3. What is rK39 test?
4. What is reticulocyte? State with example.
5. Define normocytic normochromic anaemia.
6. Write the clinical features of Multiple myeloma.
7. Define RPHA.
8. What is meant by tactoid formation?

**GROUP-B**Answer any **FOUR** questions:

4×4=16

1. What caused Methamoglobinemia? What do you mean by hydrops fetalis?
2+2
2. What is myelodysplastic syndrome (MDS)? Classify MDS according to French-American-British classification.
1+3
3. Which type of ELISA is used for the detection of dengue IgG? State principle of it.
1+3
4. What is anti-CCP? How do you detect it? Differentiate VDRL and RPR test.
2+2
5. Briefly describe the serial dilution procedure taking an example.
1+3
6. Discuss about the immunological features of SLE.
7. Discuss the Clinical manifestations of chronic myeloid leukaemia.
8. Define anamnestic reaction reaction. How do you interpret the result of widal test?
2+2

GROUP-CAnswer any **TWO** questions:

2X8=16

1. Briefly describe the role of erythropoietin in the regulation of erythropoiesis mentioning its source. Describe the role of biosynthetic process of haemoglobin with a suitable diagram.
4+4

P.T.O.

(2)

2. Describe the principle of 'Mantoux test'. How will you draw the inference from the Mantoux test? How do you detect congenital toxoplasmosis? 2+2+4
3. Which antigen are considered for HIV-I detection by western blot and give interpretation technique and the test result? Discuss the molecular basis of sickle cell anaemia. What do you mean by Leukopenia? 3+3+2
4. What is zone of equivalence? What is titre value? State the principle and application of ASO test. 2+2+4