

THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY

[AHS 1022]

OCTOBER 2022

Sub. Code: 1253

M.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR (Regulation 2011-2012)

(Candidates admitted from 2013-2014 onwards – Paper – III)

(Candidates admitted from 2020-2021 onwards – Paper – IV)

PAPER III & IV– HAEMATOLOGY AND CLINICAL PATHOLOGY

Q.P. Code: 281253

Time: three hours

Answer ALL Questions

Maximum:100 Marks

I. Elaborate on:

(2 x20 = 40)

1. Write a brief note on automation in hematology with their principle. Mention their advantages and disadvantages.
2. Classify anemia based on the MCV indices with respective lab investigations.

II. Write notes on:

(10X6=60)

1. Write a detail note on estimation of platelet count and mention causes of thrombocytopenia.
2. Write a note on High Performance Liquid Chromatography in detail with emphasis on diabetes and hemoglobinopathy.
3. Write a note on APLA and their diagnostic criteria.
4. Write a note on chronic granulomatous disease and laboratory investigations in detail.
5. Describe a detail note on pathogenesis and lab investigations of immune thrombocytopenia.
6. Describe a detail note on collection and examination of seminal fluid.
7. Differentiate Leukamoid reaction and CML.
8. Write a note on causes and lab investigations of Eosinophilia.
9. Write a note on PNH and their Lab investigations.
10. Write a note on pathway of hemoglobin synthesis.
