

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

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2013

M.D. DEGREE EXAMINATION

BRANCH III – PATHOLOGY

**PAPER IV – IMMUNOPATHOLOGY, HAEMATOLOGY, PRINCIPLES
AND APPLICATION TO TECHNOLOGICAL ADVANCES
IN LABORATORY SERVICES**

Q.P. Code: 202013

Time : Three Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. Classify Coagulation disorders. What is the role of Lab in the diagnosis of Coagulation disorders? Add a note on Quality Control aspect of Coagulation testing.
2. Classify Mediastinal lesions. What is the role of Fine Needle Aspiration Cytology in Mediastinal lesions? What are the ancillary tests which can be done to assist diagnosis in FNAC?

II. Write Short Notes on:

(10 x 5 = 50)

1. Immune Hemolytic anaemia.
2. Interventional cytology.
3. Semen analysis.
4. Minor Blood Group Systems.
5. Biphenotypic leukemia.
6. Minimal Residual disease.
7. Dyserythropoiesis.
8. Pre analytical errors in Histopathology.
9. Differential diagnosis of Plasma Cell Neoplasms.
10. Autopsy findings in COVID vaccine related death.

III. Reasoning Out:

(4 x 5 = 20)

1. 40 / M presented with fever with chills every second day, he was coming from an Endemic area, his Urine was black in colour.
 - a) What is your diagnosis?
 - b) What are the tests done for confirmation?
 - c) What are the clinical manifestations?
 - d) What are the complications?

2. 55 / M presented with digital infarcts, Splenomegaly and Hemogram revealed HB 13 G / dL and platelet count of 680,000 / CU MM.
 - a) What is your diagnosis?
 - b) What is the molecular pathogenesis of this condition?
 - c) What are the complications?
 - d) What is the prognosis?

3. 30 / M presented with sore throat, fever, cervical lymphadenopathy. Blood count revealed Lymphocytosis and reactive lymphocytes in smear, serologic investigations were done for confirmation.
 - a) What is the clinical Scenario given?
 - b) What is the pathogenesis?
 - c) How will you confirm diagnosis?

4. 40 / F presented with swelling in the neck submandibular region, FNAC of the swelling revealed predominantly oncocytic cells.
 - a) What are your differential diagnosis?
 - b) How will you classify Salivary Gland Lesions according to Milan classification?
 - c) Name four recently described Entities in Salivary Gland Neoplasms.

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