

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

[MD 1223]

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

**Sub. Code: 2011**

**M.D. DEGREE EXAMINATION  
BRANCH III – PATHOLOGY  
PAPER II – GENERAL PATHOLOGY  
*Q.P. Code: 202011***

**Time : 3 Hours**

**Maximum : 100 Marks**

**I. Essay: (2 x 15 = 30)**

1. Discuss about the molecular basis, biochemical aspects and transmission patterns of Single Gene disorders.
2. Describe the detail about the pathogenesis of Autoimmune Disorders. Discuss about Lupus Nephritis.

**II. Write short notes on: (10 x 5 = 50)**

1. Chemokines in inflammation.
2. Reperfusion injury.
3. Genomic Instability.
4. Ig G4 disease.
5. Role of Endothelium in Hemostasis and Thrombosis.
6. Cellular aging.
7. Mechanism of Homing of Cancer cells.
8. Radiation injury.
9. Bioterrorism.
10. Tissue microarray.

**III. Reasoning Out: (4 x 5 = 20)**

1. 35 / M presented with swelling both feet and hands.
  - a) What is the pathophysiology of the swelling in feet?
  - b) Classify according to the causes?
  - c) What are the morphological changes in various organs?

2. 10 / M boy presented with loss of protein in visceral compartment, edema and alternating bands of light and dark colour of hair.
  - a) What is your diagnosis?
  - b) What are the morphologic features in various organs?
  - c) What is the differential diagnosis?
  
3. 45 / M who underwent renal transplant surgery started developing, elevated blood urea in 4 months.
  - a) What is your diagnosis?
  - b) What are the causes of the underlying condition?
  - c) What are the morphological changes in the Kidney?
  - d) What is the role of IHC in diagnosis?
  
4. 17 / M was of height 6 feet and 5 inches, long tapering fingers and lax joints with exophytic warty growth on penile shaft.
  - a) What is your diagnosis?
  - b) What is the pathogenesis?
  - c) What are the morphologic findings in other organs?

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