

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

[MD 1022]

OCTOBER 2022

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. Write in detail about Etio-pathogenesis, types, morphological changes and stages of shock.
2. Write in detail about cytoskeleton structures and cell to cell interaction.

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

1. Course and changes in cell injury.
2. Gaucher disease.
3. Anti phospholipid Syndrome.
4. Write briefly about Para-neoplastic Syndrome.
5. Endogenous pigments.
6. Toll- Like Receptors.
7. Tumor suppressor Genes.
8. BRAF, RAS mutations and their significance.
9. Genomic Instability.
10. Autophagy.

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

1. A 60 Years old male, with history of long term hemodialysis, developed carpal tunnel syndrome. Arthroscopy reveals, deposit of amorphous material with compression of median nerve.
 - a. Most probable diagnosis.
 - b. Morphological features of the lesion.
 - c. Stains for confirmation & appearance.

2. A sea diver got admitted with difficulty in breathlessness and signs of asphyxia.
 - a. What is the probable diagnosis?
 - b. Discuss about pathogenesis and sequences of the lesion.
 - c. Mention about other types similar lesions.

3. An elderly lady about 45 years delivered a female baby with lymphedema of extremities, cubitus valgus and karyotyping revealed 45XXY.
 - a. What is the diagnosis?
 - b. What are the genetic abnormalities?
 - c. What are phenotype structural changes you expect?
 - d. Describe in detail about molecular pathogenesis.

4. A 30 year old lady presented with lymphadenopathy, fever and rashes over palms and soles. On examination she also had silvery gray superficial erosions over oral and genital mucous membranes. HPE revealed infiltration by plasma cells.
 - a. What is the probable diagnosis?
 - b. Discuss about pathogenesis and sequences of the lesion.
 - c. Mention about differential diagnosis.
 - d. Serological tests for confirmation of diagnosis.

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