

[LP 114]

OCTOBER 2019

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 the pathogenesis of Antibody mediated rejection of solid organs. Discuss the Histopathology, Immunohistochemical and Electronmicroscopic studies in Renal Antibody mediated rejection.
2. Discuss in detail Microbial carcinogenesis. Describe the various pathogens, Pathogenesis and tumours associated with them.

**II. Write short notes on:**

**(10 x 5 = 50)**

1. Paraneoplastic syndromes.
2. Telomerase.
3. Fracture healing and its complications.
4. Necroptosis.
5. Genomic Imprinting.
6. Dendritic cell.
7. DNA finger printing.
8. Toll like receptors.
9. Immunologic Tolerance.
10. Opportunistic infections in AIDS.

(2)

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. 3 year old child presented with ataxic gait, seizures, mental retardation and inappropriate laughter. What would be the diagnosis and describe the underlying genetic abnormality?
2. 25 year old female presented with fever, arthralgia, pleuritic chest pain, photosensitivity and characteristic erythema of the face along the bridge of nose and cheeks (“butterfly rash”). She had hematuria and proteinuria and her peripheral smear examination showed anaemia and thrombocytopenia. What would be the diagnosis and describe its pathogenesis.
3. 2 year old child presented with seizures, decreased pigmentation of hair and skin, eczema, mental retardation and had a strong mousy odour. What would be the diagnosis? What is the mode of inheritance and underlying biochemical abnormality?
4. 30 year old female patient with ankylosing spondylitis had moderate splenomegaly and hepatomegaly. Patient died due to road traffic accident. On autopsy, cut section of spleen showed “tapioca” like granules apart from other findings. Histopathology revealed amorphous eosinophilic substance involving splenic follicles. What would be the diagnosis? Describe the pathogenesis and special stains that could be used to confirm the nature of the material.

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