

[LO 114]

MAY 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. Enumerate the Lysosomal storage diseases. Discuss the pathogenesis of Lysosomal storage diseases. Write about Niemann-Pick disease.
2. Write about Immunologic deficiency syndromes. Discuss about the Primary Immunodeficiencies and Describe X-linked Agammaglobulinemia of Bruton.

**II. Write short notes on:**

**(10 x 5 = 50)**

1. Gaucher disease.
2. Anaphylatoxins.
3. Thermal injury.
4. Sudden infant death syndrome.
5. Cell cycle.
6. Fat embolism.
7. Rickets.
8. Heat shock proteins.
9. Growth factors in wound healing.
10. Karyotyping techniques.

### III. Reasoning Out:

(4 x 5 = 20)

1. A 26 year old women with third degree burns developed septic shock. Within 24 hours she was bleeding from all needle puncture sites, with extensive ecchymoses, petechiae and gastro intestinal bleeding. Lab studies showed Hb-6gm/dl, platelet count 64000/cu mm, PT 20 seconds, PTT 50 seconds and D-dimer positive. Discuss the pathology of this condition.
2. A known patient of HIV developed multiple lymph nodes and abnormal peripheral smear findings. What is the complication involved? What is the lymph node morphology?
3. A 45 year old lady gave birth to a baby with flat facial profile, oblique palpebral fissures and epicanthic folds. What is the probable diagnosis? Discuss the genetic aspects and clinical features.
4. 1 month old child presented with intestinal obstruction due to meconium ileus and prolonged neonatal jaundice. Mother of the child said her infant tastes salty. What is your diagnosis? What is the genetic defect in this condition? What is the morphology of various organs?

\*\*\*\*\*