[LL 114] OCTOBER 2017 **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 10 = 20)**

1. Write in detail about etio-pathogenesis, types, morphological changes and stages of shock.

2. Enumerate tumors of child hood and describe in detail about neuroblastoma.

II. Write short notes on: **(8 x 5 = 40)**

1. Describe in detail about stem cells, types and role of stem cells in homeostasis.
2. Enumerate and brief about role of free radicles in cell injury.
3. Actions of Caspase 3.
4. Write briefly about Para-neoplastic Syndrome.
5. Endogenous pigments.
6. Mechanism of rejection.
7. Occupational Cancers.
8. p53 and its role in carcinogenesis.

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

1. A 25 Years old male, had met with an accident and had severe bruises in hand. What is the type of inflammation he is likely to express and write about outcome of this inflammation?

2. A sea diver got admitted with difficulty in breathlessness and signs of asphyxia, what is the diagnosis, discuss about pathogenesis and sequences of the lesion and mention about other types similar lesions?

3. An elderly lady about 45 years delivered a female baby with lymphedema of extremities and cubitus valgus. Karyotyping revealed 45X. What is the diagnosis, what are the genetic abnormalities, structural changes you expect? Describe in detail about molecular pathogenesis.

4. A 30 year old lady came with the breast swelling who had a elder sister died of breast cancer? What is the possible diagnosis? How will you confirm the diagnosis and describe in detail about genes involved.

IV. Very Short Answers: **(10 x 2 = 20)**

1. Role of inflammatory mediators in reactions of inflammation.
2. Leukocyte defective function in inflammation.
3. Serological tumor markers.
4. Occupational Exposure and diseases associated with it.
5. Non skeletal effects of Vitamin D.
6. Write briefly about Hyperplasia.
7. Describe about Pigments.
8. Features of autosomal dominant disorders.
9. T Cell Mediated disease.
10. Chemical Carcinogens.

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