

[LE 114]

APRIL 2014

Sub. Code: 2011

**M.D. DEGREE EXAMINATION
BRANCH III – PATHOLOGY
GENERAL PATHOLOGY**

Q.P. Code :202011

Time : Three Hours

Maximum : 100 marks

I. Essay:

(2X10=20)

1. Enumerate the causes of cell injury. Discuss the morphologic changes in cell injury culminating in necrosis or apoptosis.
2. Discuss the pathogenesis of viral oncogenesis with examples.

II. Write short notes on:

(8X5=40)

1. Carcinoid syndrome.
2. Pathologic calcification.
3. Pathogenesis of fatty liver.
4. Write briefly on Klienfelter's syndrome.
5. Mechanism of angiogenesis.
6. Leukocytoclastic vasculitis.
7. Write briefly on defects in leucocyte function.
8. Isoenzymes as tumor markers.

III. Reasoning Out:

(4X5=20)

1. 18 years old boy presented with fever of unknown origin, fatigue and generalized lymphadenopathy. His peripheral smear showed lymphocytosis with atypical lymphocytes.
 - a. What is your probable diagnosis?
 - b. What is the specific antibody test to confirm your diagnosis?
2. 30 years old male smoker presented with symptoms of cough with hemoptysis. X-ray chest showed a mass lesion in the hilum of left lung. His serum calcium levels were elevated.
 - a. What is your diagnosis?

- b. What is the cause for hypercalcemia?
- 3. New born baby had flat to elevated reddish irregular lesions on the face.
 - a. What is the nature of lesion?
 - b. Name the hereditary syndrome associated with this condition.
- 4. 15 year old short statured female had webbing of neck, low posterior hair line and pigmented nevi with failure to develop secondary sex characteristics.
 - a. What is the syndrome?
 - b. What is its molecular pathogenesis?
 - c. What is the tumor that they are prone to develop?

IV. Very Short Answers:

(10X2=20)

- 1. What is the translocation in Burkitt lymphoma?
- 2. Name one non-metastasizing malignant tumor.
- 3. What is the reason for decrease in tears and saliva in sicca syndrome?
- 4. Name the erythropoietin producing tumors.
- 5. Name the carcinogens in tobacco smoke.
- 6. What is the gross appearance of fat necrosis in the mesentery?
- 7. What are myelin figures?
- 8. Name the mononuclear phagocyte of the bone.
- 9. What are the diseases caused by α_1 -antitrypsin deficiency?
- 10. What are "Clue cells"?
