

Time: 3 hours

Subject Code: 1402

Maximum: 100 marks

Answer all the questions

I. Elaborate on

10 x 3 = 30

1. Draw the structure of HIV, explain in detail about the route of transmission, pathogenesis, clinical features and lab diagnosis of AIDS.
2. Define Enzymes – its classification and factors affecting enzyme activity in detail.
3. Write about Fat Soluble Vitamins in brief.

II. Write notes on

5 x 8 = 40

1. Give an account of disorders on immune system.
2. General features of immune system.
3. Hypersensitivity 1 and 4.
4. Rheumatic heart disease.
5. Trace elements
6. Enzyme Pattern in diseases
7. Calcium – Regulation, sources, functions and deficiencies
8. Enzyme Inhibition and its types

III. Short answers on

3 x 10 = 30

1. SCID.
2. Wiskott – Aldrich syndrome.
3. T cells and its functions.
4. Pathogenesis of amyloidosis.
5. Write down 5 types of amylin proteins and its corresponding amyloidosis.
6. Difference between immunodeficiency syndrome and autoimmune disease.
7. What are Isoenzymes and Co-enzymes. Mention its examples
8. What is Hypokalemia and Hyperkalemia. Mention its symptoms
9. Three different B complex vitamins and their functions.
10. i) What are the major criteria for diagnosing rheumatic fever? (NEET 2019)

A) Carditis B) Arthritis C) Chorea D) Increased ESR

ii) Which of the following acts as a coenzyme in the metabolism of carbohydrates? (JEE Main 2020)

A) Vitamin A B) Vitamin B1 (Thiamine) C) Vitamin C D) Vitamin D

iii) Maturation of lymphocytes takes place in (NEET 2019)

A) Thymus B) Bone marrow C) Liver D) Both 1 and 2