

Time : 3 Hours

Max. Marks : 75

Note: Section A is Compulsory, attempt all questions in this section. Attempt any Two questions from Section B and Seven questions from Section C.

SECTION-A (Short answer) (10×2=20)

1. (i) Define the terms: Metastatic calcification and dystrophic calcification.
- (ii) Enlist five mediators of inflammation.
- (iii) Differentiate pyknosis and karyolysis.
- (iv) What is COPD and COLD?
- (v) What is megaloblastic anemia?
- (vi) What are symptoms of Hepatitis A?
- (vii) What are symptoms of Hansens disease?
- (viii) Differentiate benign and malignant tumor.
- (ix) What is etiology of acute renal failure?
- (x) Differentiate apoptosis and necrosis.

SECTION-B (Long essay type) (2×10=20)

2. (a) What are cellular adaptations? Give definition, mechanism, and examples of any four types of adaptations.
- (b) Differentiate Type 1 and Type 2 diabetes. Describe pathogenesis of diabetes mellitus in detail.

3. (a) Enlist various hematological disorders. Give pathogenesis of megaloblastic and aplastic anemia.
- (b) Give etiology and pathological progression of epilepsy.

4. What is cancer? Describe etiology and pathogenesis of cancer in detail.

SECTION-C (Short note type) (7×5=35)

5. What are sexually transmitted diseases? Give etiology and pathogenesis of AIDS in detail.
6. Differentiate Rheumatoid arthritis and Gout. Draw a well labeled diagram of pathogenesis of Gout.
7. Give etiology and pathogenesis of Tuberculosis. Describe preventive measures/precautions.
8. Describe Mechanism of alcohol induced liver damage. Correlate your answer with intracellular accumulations in cell injury.
9. Give signs and symptoms of Parkinson's disease. Give pathogenesis emphasizing the role of Dopamine.
10. Define Ulcer. Give role of histamine and H. Pylori in the pathogenesis of peptic ulcer.
11. What is the role of Tau and A β in the pathogenesis of Alzheimer's disease?
12. Write a short note on alteration of membrane permeability in inflammation.
13. Give role of interleukins and leukotrienes in pathogenesis of Asthma.