PATHOLOGY

PAPER – I

PATHO/APRIL/16/32/I

Time : 3 hours
Max. Marks : 100

Important instructions:

- *Attempt all questions in order.*
- *Each question carries 10 marks.*
- *Read the question carefully and answer to the point neatly and legibly.*
- *Do not leave any blank pages between two answers.*
- *Indicate the question number correctly for the answer in the margin space.*
- *Answer all the parts of a single question together.*
- *Start the answer to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

Write short notes on:

1. a) Pathophysiology of osteoporosis. 5+5
   b) Pathphysiology of disseminated intravascular coagulation.

2. a) What is sarcoidosis? Give its etiology and pathogenesis. 5+5
   b) Morphological changes in various organs in sarcoidosis.

3. a) Mechanism of hematogenous spread of tumors. 5+5
   b) Telomerase activity in health and disease.

4. a) Antinuclear antibodies – immuno-florescence pattern and interpretations. 5+5
   b) Role of electron microscopy in diagnostic pathology.

5. a) Graft versus host disease. 5+5
   b) Mechanism of iron absorption.

6. a) Prenatal diagnosis - methods & utility. 5+5
   b) Methods of evaluation of $HbA1_C$, its role in diagnosis and monitoring of diabetes mellitus.

7. a) Pathogenesis of autoimmune thyroiditis. 5+5
   b) Role of trace elements in health and disease.

8. a) Microarray technique & its applications. 5+5
   b) Role of IHC in differential diagnosis of lymphoproliferative lesions.

9. a) What is an atheroma? 2+4+4
   b) Various risk factors and pathogenesis of atherosclerosis.
   c) Various acute coronary events and their consequences.

10. a) Mechanism of apoptosis. 5+5
    b) Angioneurotic oedema.

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