

PATHOLOGY**PAPER – I**

Time : 3 hours

Max. Marks : 100

PATH/D/17/32/I

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) Acquired predisposing conditions in neoplasia. 5+5
b) Pathophysiology of septicemic shock
2. a) Histopathological findings in lepra reactions 5+5
b) Automated semen analysis
3. a) Protein accumulations with examples. 5+5
b) Cell adhesion molecules.
4. a) Mechanisms of apoptosis 5+5
b) Role of microbial agents in pathogenesis of atherosclerosis.
5. a) Morphology of renal changes in systemic lupus erythematosus. 5+5
b) Necroptosis.
6. a) Technique and applications of tissue microarray 5+5
b) Pathogenesis and pathology of osteoporosis
7. a) Mechanisms of tumour evasion of immune surveillance. 5+5
b) Mechanism and sequelae of ATP depletion in cell injury.
8. a) Mechanisms that counteract cellular aging. 5+5
b) Defects in innate immunity.
9. a) Pathogenesis and pathology of syphilis. 5+5
b) Trouble shooting in immunohistochemistry
10. a) Diagnostic utility of direct immunofluorescence in cutaneous bullous disorders. 5+5
b) Mechanism of immunodeficiency in HIV