



PATHOLOGY
PAPER – I

PATH/D/14/32/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) What are the types of hypersensitivity reactions? Give the mechanism of type IV hypersensitivity reaction with suitable examples. 6+4
b) Pathogenesis of immune mediated renal injury.
2. a) What is amyloid? 2+3+5
b) Classify amyloidosis.
c) Pathogenesis of amyloidosis.
3. a) Pathophysiology of osteoporosis. 5+5
b) Antinuclear antibodies – immunofluorescence pattern and interpretation.
4. a) Role and limitations of intraoperative consultation in neuropathology. 5+5
b) Techniques and interpretation of tests for sex chromatin.
5. a) Role of non-enzymatic glycosylation in the pathogenesis of diabetic complications. 5+5
b) Molecular genetics of colonic carcinoma.
6. a) Role of endothelial cells in hemostasis and thrombosis. 5+5
b) Pathophysiology of obesity.
7. a) Various techniques for HPV testing. 5+5
b) Analysis of synovial fluid in connective tissue disorders.
8. a) Role of extra cellular matrix in tissue repair. 5+5
b) Enumerate various occupation associated disorders with enhanced risk for carcinogenesis.
9. a) Graft versus host disease. 5+5
b) Role of FISH in diagnosis of various malignancies.
10. a) Heat shock proteins. 5+5
b) PAPNET.
