

PATHOLOGY

PAPER – I

PATH/J/17/32/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) Liquid biopsy. 5+5
b) Immunological tolerance.
2. a) Protein misfolding disease. 5+5
b) Role of molecular testing in diagnosis of salivary gland tumours.
3. a) Endogenous Nanoparticles. 5+5
b) Pathogenesis of Ig4 related diseases.
4. a) Biomedical waste disposal in pathology laboratories. 5+5
b) Newer molecular techniques in diagnostic pathology.
5. a) Signal transduction pathway. 5+5
b) Epstein Barr virus (EBV) associated malignancies.
6. a) Role of cytogenetics in diagnosis of pediatric solid tumours. 5+5
b) Cytokines.
7. a) Chemiluminescence and its diagnostic applications. 5+5
b) Caspases.
8. a) Free radical injury. 5+5
b) Quality control in laboratory automation.
9. a) Cytokeratins in differential diagnosis of tumours. 5+5
b) Microparticles in health and disease.
10. a) Pathology of post transplant lymphoproliferative disorders. 5+5
b) Laser capture micro-dissection.
