

**PATHOLOGY**

**PAPER – II**

Time : 3 hours  
Max. Marks : 100

PATH/D/17/32/II

**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) Role of immunohistochemistry in differential diagnosis of small round cell tumours.   | 5+5 |
|     | b) Urine cytology in renal transplantation.  |     |
| 2.  | a) Role of cardiac biomarkers in diagnosis and risk stratification of ischaemic heart disease.                                     | 5+5 |
|     | b) Role of ancillary techniques in diagnosis of granulomatous inflammations.   |     |
| 3.  | a) Recent advances in tissue processing techniques.  | 5+5 |
|     | b) Lab monitoring of a patient with diabetes mellitus.   |     |
| 4.  | a) Compare the advantages and disadvantages of liquid based cytology v/s conventional papanicolaou stain in gynaecologic cytology. | 5+5 |
|     | b) Role of flow cytometry in diagnostic cytology of body fluids.   |     |
| 5.  | a) Quality assurance in urine examination.   | 5+5 |
|     | b) Evaluation of endometrium in infertility.   |     |
| 6.  | a) Cytologic diagnosis of bronchogenic carcinoma   | 5+5 |
|     | b) Lab accreditation in histopathology   |     |
| 7.  | a) Therapeutic targets of lung cancer.   | 5+5 |
|     | b) Epigenetic alterations in neoplasia.  |     |
| 8.  | a) Reporting guidelines for hormone receptor in carcinoma breast.  | 5+5 |
|     | b) Role of histopathology in diagnosis of infectious diseases.   |     |
| 9.  | a) Genetic basis of thalassemia.   | 5+5 |
|     | b) Applications and pitfalls of image morphometry  |     |
| 10. | a) Spectral karyotyping  | 5+5 |
|     | b) Amniotic fluid investigations in fetal diseases.  |     |