

**PATHOLOGY**  
**PAPER-II**

Time: 3 hours  
Max. Marks:100

PATH/J/19/32/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:**

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|-----|---|-----|
| 1.  | a) Serum PSA estimation.<br>b) Liquid based cytology.   | 5+5 |
| 2.  | a) Molecular classification of breast cancer.<br>b) Role of molecular classification in patient management of breast cancer.  | 6+4 |
| 3.  | a) BRAF V600E in thyroid cancer.<br>b) PD-L1 in cervical cancer.  | 5+5 |
| 4.  | a) Interpretation of rapid diagnostic tests for malaria.<br>b) CAR -T cells.  | 5+5 |
| 5.  | a) Immunological tolerance.<br>b) Urine biomarkers in renal transplant rejection.   | 5+5 |
| 6.  | a) Non-small cell lung cancer – changes in biomarker era.<br>b) Targeted therapy in cancer.                                   | 5+5 |
| 7.  | a) Proteomics in diagnostic pathology.<br>b) Laser capture microdissection.   | 5+5 |
| 8.  | a) IgG4 related disease.<br>b) Limitations of FNAC in thyroid lesions.  | 5+5 |
| 9.  | a) Point of care testing in infectious disease.<br>b) Nano diagnostics.   | 5+5 |
| 10. | a) PCR in soft tissue tumours.<br>b) Differential diagnosis of adenocarcinoma versus reactive mesothelial cells in effusions. | 5+5 |

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