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) Newer techniques used in cervical cancer detection.
   b) Liquid based cytology: Principle, advantages & disadvantages.
   5+5

2. a) Significance of markers in breast cancer management.
    b) Various rapid stains and their uses.
    5+5

3. a) List various laboratory tests for viral infections with examples.
    b) Role of immunocytochemistry in cytodiagnosis and prognosis.
    5+5

4. a) Amniotic fluid examination: indications and contraindications.
    b) Normal and abnormal parameters of amniotic fluid and their interpretations.
    5+5

5. a) High Performance Liquid Chromatography (HPLC) and its applications.
    b) 5q deletion syndrome.
    6+4

6. a) Telepathology & its components.
    b) Advantages and disadvantages of telepathology.
    c) Guidelines of telepathology.
    2+4+4

7. a) Role of immunofluorescence in diagnosis of glomerular lesions.
    b) Diagnostic approach to a patient suffering from jaundice.
    5+5

8. a) Role of urinary sediment cytology in diagnosis of various diseases.
    b) Newer markers in lung cancer with regard to targeted therapy.
    5+5

9. a) Bethesda system of reporting thyroid lesions.
    b) Applications, approach, advantages, and disadvantages of guided FNAC.
    5+5

10. a) Role of cytology of nipple discharge in breast lesions.
    b) Next generation sequencing.
    5+5

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