

FINAL EXAM  
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

## PATHOLOGY

## PAPER-II

PATH/J/18/32/II

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) Paris system of reporting in Urinary cytology.<br>b) Genomic imprinting  | 5+5 |
| 2.  | a) Microalbuminuria and its detection.<br>b) Significance of HbA1c estimation.  | 5+5 |
| 3.  | a) Immunofluorescence and its application in glomerular diseases.<br>b) Principle of Fluorescence In-Situ Hybridization (FISH) & its application in solid tumours.              | 5+5 |
| 4.  | a) Serum tumour markers and their significance.<br>b) Role of enzyme histochemistry in muscle biopsy.   | 5+5 |
| 5.  | a) Molecular subtyping of embryonal brain tumours.<br>b) Markers in lung carcinoma with respect to newer classification and treatment.  | 5+5 |
| 6.  | a) Processing of fluids for cytological examination.<br>b) Morphological and immunochemical markers in the differential diagnosis of mesothelioma and adenocarcinoma in fluids. | 5+5 |
| 7.  | a) Limitation of FNAC of thyroid nodule.<br>b) Utility of Endobronchial Ultrasound(EBUS) guided FNAC  | 5+5 |
| 8.  | a) Diagnostic approach to atypical glandular cells in cervical smear.<br>b) Microsatellite instability in Cervical Cancer.  | 5+5 |
| 9.  | a) Current understanding in the pathology of hydatidiform moles.<br>b) Molecular classification of breast cancer.   | 5+5 |
| 10. | a) Role of molecular markers to categorize soft tissue sarcomas.<br>b) Role of immunohistochemistry in problematic prostate biopsy.   | 5+5 |

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