

www.FirstRanker.com

www.FirstRanker.com



FINAL EXAM JUNE 2014 NATIONAL BOARD OF EXAMINATIONS

PATHOLOGY

PAPER - II

PATH/J/14/32/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) Role of mast cells in inflammation b) Pre-cancerous states	5+5
2.	Describe in brief cytomorphologic features of malignant small round cell tumours of childhood. What ancillary technique would you apply on cytological material for final diagnosis?	5+5
3.	a) Causes of osteoporosis and laboratory tests for its evaluation b) HbA _{1C} estimation and its significance in Diabetes Mellitus	5+5
4.	a) Method of collection and processing of synovial fluid and role of cytological analysisb) Fixation techniques and fixatives used in cytology	5+5
5.	a) Tumour suppressor genes b) Chronic renal allograft rejection	5+5
6.	a) Application of current molecular techniques in diagnostic cytologyb) DiGeorge syndrome	5+5
7.	a) Role of electron microscopy in diagnostic pathology b) Applications of Hemopoietic stem cell transplantation	5+5
8.	a) Cytodiagnosis of infections and role of immunocytochemistryb) Applications of flow cytometry in fine needle aspirate specimens.	5+5
9.	a) Metabolic PET biopsy b) Glandular lesions in cervical cytology	5+5
10.	a) Telomerase activity in health and diseaseb) Recent tests for diagnosis of tuberculosis and concept of point of care (POC) testing.	5+5