

FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

PATHOLOGY

PAPER-I

PATH/J/18/32/I

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:

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|-----|--|-------|
| 1. | a) Oxidative stress in cell injury.
b) Role of macrophages in chronic inflammation. | 5+5 |
| 2. | a) Micro-RNA and its role in diagnostic pathology.
b) Diseases caused by protein misfolding | 5+5 |
| 3. | a) Epigenetic changes in cancer.
b) Mechanism by which tumour evade immune system. | 5+5 |
| 4. | a) Polymorphonuclear function defects.
b) Mechanisms of T cell mediated hypersensitivity reactions. | 5+5 |
| 5. | a) Components of extracellular matrix.
b) Pathology of tertiary syphilis. | 5+5 |
| 6. | a) Reasons of dreadful pathogenicity of Plasmodium falciparum.
b) Mechanism of host resistance in malaria
c) Pathological spectrum of Leishmaniasis | 3+2+5 |
| 7. | a) Applications of Next Generation Sequencing.
b) RNA analysis in tumour biology. | 5+5 |
| 8. | a) Pathological findings and spectrum of disease in Ig G4 Related disease.
b) Mechanism of transformation of Stem cell like properties of cancer cells. | 5+5 |
| 9. | a) Importance of calibration in clinical laboratory.
b) Immune mechanism in SLE | 5+5 |
| 10. | a) Leptin
b) Diet and cancer | 5+5 |
