## PATHOLOGY PAPER-II

TIME: 3 HOURS PATH/J/20/32/II

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.	Bio banking technology and its utility in biomedical research.	5+5
2.	Discuss Microsatellite Instability. What are the ways of establishing MSI.	5+5
3.	Computer assisted tomographic autopsy: its role, advantages and disadvantages.	4+3+3
4.	Append the 2016 WHO Classification of Brain Tumors. Discuss the role and the need of IHC and molecular biology in classifying these tumors.	5+5
5.	What is Artificial Intelligence? Discuss the evolving role of AI and Machine learning in histopathology.	5+5
6.	Enumerate categories of Paris System of Urinary Cytology reporting. Discuss each category.	5+5
7.	<ul><li>a) Gene silencing.</li><li>b) Automation in histopathology laboratory.</li></ul>	5+5
8.	What is Quality Assurance? Discuss the content of a quality assurance programme in Hematology laboratory.	5+5
9.	Techniques and clinical utility of cell blocks in cytology specimens.	5+5
10.	Discuss various platforms of Next Generation sequencing. Discuss its role for targeted therapy in lung cancer.	5+5

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