PATHOLOGY PAPER-I

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

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.	Discuss mechanism of septic shock and MODS. Enumerate and elaborate the role of various serum prognostic markers of sepsis.	5+(2+3)
2.	Classify chromosomal defects. Give examples of each type. Elaborate karyotyping and its use in detection of such defects.	3+2+5
3.	Discuss the mechanism of whole slide imaging. Enumerate and elaborate the utilization of the same in teaching and diagnostics.	5+(2+3)
4.	a) Lesions of Alzheimer's disease.b) Epigenetic changes in cancer.	5+5
5.	a) Regulators of angiogenesis.b) HLA gene and autoimmunity.	5+5
6.	a) Xenobiotics.b) Cellular and immunological interactions in an atherosclerotic plaque.	5+5
7.	What is tumor immunity? Elaborate on the mechanism of immunotherapy.	5+5
8.	a) Liquid biopsy and its utility in cancer management.b) Application of proteomics in cancer.	5+5
9.	a) Fibrinoid necrosis.b) Cytosolic calcium and cell injury.	5+5
10.	Pathophysiology of bone healing.	10
