## PATHOLOGY PAPER-I

Time: 3 hours PATHO/D/20/32/I

Max. Marks:100

## **Important Instructions:**

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- 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.	Describe the pathophysiology of hypovolemic shock. Discuss the expected autopsy findings in a case of death from hypovolemic shock due to upper GI bleed.	10
2.	<ul><li>a) Enumerate "Pattern recognition receptors" of immune system.</li><li>b) Spectrum of autoantibodies in SLE.</li></ul>	5+5
3.	<ul><li>a) Cellular and immunological interactions in atherosclerotic plaque.</li><li>b) Chemical nature of amyloid.</li></ul>	5+5
4.	<ul><li>a) Regulators of angiogenesis.</li><li>b) Laboratory information system.</li></ul>	5+5
5.	<ul><li>a) Significance of non-coding DNA.</li><li>b) Triple repeat disorders of coding regions.</li></ul>	5+5
6.	<ul><li>a) Telomeropathies.</li><li>b) Inflammasomes.</li></ul>	5+5
7.	<ul><li>a) Role of growth factors in tissue repair.</li><li>b) Pathogenesis of ascites.</li></ul>	5+5
8.	<ul><li>a) Xenobiotics.</li><li>b) Pyroptosis and its role in health and disease.</li></ul>	5+5
9.	<ul><li>a) Cellular Housekeeping.</li><li>b) Cyclin Dependent Kinase Inhibitors (CDKIs).</li></ul>	5+5
10.	Pathophysiology of Covid-19.	10

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