

PATHOLOGY

PAPER – I

PATH/D/15/32/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:

1.	a) Statistical analysis in research methodology.	5
	b) Signal transduction pathways.	5
2.	a) Mechanisms of hypertrophy.	4
	b) Mechanism of dystrophic calcification.	3
	c) Ochronosis.	3
3.	a) Mechanism and effects of leukocyte activation.	5
	b) Abnormalities in tissue repair.	5
4.	a) Pathogenesis of thrombus formation and its progression.	6
	b) Morphological features observed in irreversible shock.	4
5.	a) Angioedema.	3
	b) Principles and effects of gene mutations.	3
	c) Mechanism of hypercholesterolemia and its consequences.	4
6.	a) Role of NK cells in immune system.	3
	b) Mediators of Immediate hypersensitivity.	3
	c) Mechanisms of SLE.	4
7.	a) Indications for and complications of transplantation of hematopoietic stem cells.	5
	b) Role of epigenetic changes in carcinogenesis.	5
8.	a) Pathological features of lead poisoning.	5
	b) Systemic effects of protein energy malnutrition.	5
9.	a) Pathophysiology and lab diagnosis of phenylketonuria.	5
	b) Mechanism of apoptosis.	5
10.	a) Pathological feature of cryptococcal infection and its lab diagnosis.	5
	b) Pathogenesis of atheromatous plaque formation.	5
