PATHOLOGY

PAPER - IV

PATH/D/13/32/IV

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.	Describe the mechanisms of Apoptosis. Discuss morphological and biochemical changes in Apoptosis.	6+(2+2)
2.	a) Microwave tissue processing b) Biomedical waste management	5+5
3.	a) RANKL in metastasis.b) Natural killer cells in tumour immunity	5+5
4.	a) FISH and its applications b) Lifestyle associated diseases	5+5
5.	a) Role of Arachidonic acid metabolites in inflammation.b) Role of growth factors & cytokines in wound healing.	5+5
6.	a) Etiopathogenesis of SLE.b) List the antinuclear antibodies in various autoimmune diseases.	6+4
7.	a) Role of Vitamin D in calcium metabolism.b) Acute radiation injury	5+5
8.	a) Septic shock b) Fat embolism	5+5
9.	a) Endothelial – Leucocyte Adhesion Moleculesb) The RAS oncogene in neoplasia.	5+5
10.	 a) Molecular methods in diagnosis of genetic diseases. b) List the trace metals and the syndromes associated with their deficiencies. 	6+4
