PATHOLOGY

PAPER – I

PATH/D/16/32/I

Time : 3 hours
Max. Marks : 100

IMPORTANT INSTRUCTIONS

- ***This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.***
- ***Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.***
- ***Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.***
- *Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.*
- *Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).*
- *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:

PART A

1. a) What are Xenobiotics? Write the pathways of Xenobiotic metabolism. (1+4)+(1+4)
   b) Define bioterrorism. Categorise various potential agents of bioterrorism.

2. a) Role of endothelium in hemostasis. 3+4+3
   b) Pathogenesis of thrombosis.
   c) Fate of thrombus.

3. a) Tensins in carcinogenesis 5+5
   b) DNA repair defects and cancer.

4. a) Principle of Fluorescent in Situ Hybridisation (FISH). Enumerate its applications. 3+3
   b) Mention various karyotypes found in Turner's syndrome, and methods for prenatal diagnosis of Turner's syndrome. 2+2

5. Pathogenesis, classification and diagnosis of amyloidosis. 4+3+3

P.T.O.