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Candidate's Seat No :_____

M.Sc Sem.-2 Examination

P - 409

Toxicology

June 2022

Time : 2-00 Hours] **[Max. Marks : 50**

Q.1	**Answer the Following Questions (Any Six)** **42 Marks**
1	WHAT ARE MALIGNANT AND BENIGN NEOPLASMS? EXPLAIN THEIR CHARACTERISTICS IN DETAIL
2	WRITE A NOTE ON CARCINOGEN CLASSIFICATION SYSTEM OF THE NATIONAL TOXICOLOGY PROGRAM.
3	WRITE A NOTE ON IARC AND EPA CLASSIFICATION OF CARCINOGENS
4	WHAT ARE DNA DAMAGING AGENTS? CLASSIFY THEM WITH SUITABLE EXAMPLES
5	EXPLAIN THE PROCESS OF DEVELOPMENT OF CHEMICAL CARCINOGENESIS.
6	EXPLAIN INITIATION PROMOTION MODEL FOR CARCINOGENESIS
7	WRITE IN BRIEF ABOUT MUTATIONAL ACTIVATION OF PROTO ONCOGENES WITH SPECIAL REFERENCE TO *RAS*
8	WRITE A BRIEF NOTE ON TUMOR SUPPRESSOR GENES AND DISCUSS ABOUT P53 TUMOR SUPPRESSORGENE
9	EXPLAIN PHYSICAL AND CHEMICAL TYPES OF INDUSTRIAL HAZARDS
10	POINT OUT SOME EFFECTS OF TOXIC CHEMICALS ON ENZYME.
Q.2	**Answer the Following Short Questions (Any Eight)** **8 Marks**
1	IRON CONTAINING ENZYMES ARE REPLACED BY WHICH GAS?
2	WHICH POISON IS ALSO CALLED VEGETABLE ACID POISON?
3	DEFINE INDUSTRIAL HAZARD.
4	NAME THREE TYPES OF PHYSICAL HAZARDS.
5	NAME AN PIONEER OF INDUSTRIAL TOXICOLOGY.
6	DEFINE NONSENSE MUTATIONS
7	WHAT IS THE MAJOR LIMITATION OF AMES TEST?
8	HOW WAS THE FIRST PROOF OF CHEMICAL CARCINOGENESIS OBTAINED?
9	N-METHYL-N-NITROSOUREA FALLS UNDER WHICH CATEGORY OF CARCINOGEN?
10	EPIGENETIC AGENTS ARE RESPONSIBLE FOR MUTAGENESIS? TRUE OR FALSE?

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