

Your Roll No.....

PhD. COURSEWORK EXAMINATION 2023-2024

Elective Paper: Toxicology

Paper Code – PHTX102

Title - Principle of Toxicology

Time: 3 Hours

Max. Marks 75

**(Write your Roll No. on to immediately on receipt of this question paper)
Attempt all questions. All parts of a question must be attempted in continuation.**

Question -1

Give brief answers to the following questions:

1.5 x10 = 15

- a) Define ED50
- b) Systemic toxin
- c) The dose-response relationship is based on observed data from,, or cell studies.
- d) Bioactivation
- e)is the transfer of a chemical from the site of exposure, usually an external or internal body surface, into the systemic circulation.
- f) The most commonly involved organ of detoxification is.....
- g) What do you understand by Synergism?
- h) What is a quantal dose-response?
- i) Why activated charcoal is administered in case of oral poisoning?
- j) Phase II reaction principally involvesreactions.

Question -2

Q.2. Short note type; Attempt any 04 (not more than two pages)

4x5=20

- 1. Discuss scope of Toxicology
- 2. Storage of toxic chemicals
- 3. Discuss phase-I reactions
- 4. What are idiosyncratic effects?
- 5. Effects of toxicants on target molecules
- 6. Various types of toxicity

Q.3. Long note type (no limit of pages). Attempt any 02

2x20=40

1. Discuss about Dose response relationship
2. Xenobiotic biotransformation and detoxification reactions
3. Toxicant-induced cellular dysfunction
4. Various isoforms of Glutathione-s-transferase (GST) and its role in detoxification.

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