

Ph.D. Course Work (October, 2023)**CodePHTX101 Elective Paper:****Title-Drug Toxicology****Time: Three Hours****Maximum Marks: 75****(Write your Roll No. at the top immediately on receipt of this question paper)****Answer ALL questions. All parts of a question must be answered in continuation. Start answering each question from a new page. Cite examples and draw labelled diagrams.****Question1:** Attempt of the following any 10**[10X1.5=15]****Mark true or false**

- I. ATP and active transport are related to each other
- II. Barbiturates exert an exciting effect
- III. Liquid preparations do not require the step of dissolution
- IV. Food intake has a pronounced effect on drug metabolism
- V. The bioavailability of a drug is calculated, not measured directly
- VI. Blood-brain barrier regulates the movement of ions, molecules, and cells between the blood and the brain.
- VII. The distribution of drugs is an irreversible process
- VIII. Erythropoietin has no effect on athlete's aerobic capacity and fatigue
- IX. Induction of anaesthesia with propofol results in a reduction in arterial blood pressure than with other intravenous anaesthetics
- X. Narcotic analgesics produce pharmacological effects
- XI. Androgenic anabolic steroids have no effect on the muscle mass
- XII. TCA are the class of drugs linked with depression and mental ailments
- XIII. Diuretics are the class of drugs that increase the stamina of an athlete
- XIV. Fat-soluble drugs dissolve more slowly in an athlete
- XV. The Rumack-Matthews nomogram is associated with acetaminophen toxicity

Question 2: Differentiate between the following any 4**(4X5=20)**

- A) Teratogen and mutagen
- B) Drug abuse and drug addiction
- C) Classification of non-steroidal anti-inflammatory drugs (NSAID) and narcotics
- D) Side effects of ibuprofen and side effects of synthetic human growth hormone (HGH)
- E) Humoral and cell-mediated allergy

Question 3: Give a detailed account of the following any 2**[2X20=40](no limit of pages)**

1. What is the effect of prolonged tobacco on the body? List the different forms in which it is consumed. What are the key measures adopted to arrest tobacco consumption?
2. What is a drug? List the different types of drugs. Give a detailed overview of the clinical stages of acetaminophen toxicity.
3. What are the criteria for banning a drug by the World Anti-Doping Agency (WADA)? What are the Prohibited at all times, and Prohibited only In-Competition drugs?
4. Explain the pharmacology, mechanism of action and spectrum of activity of Isoniazid.
