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School of Biological and Life sciences

Bachelor of Science Honours in Biomedical Science

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem II - P1UA203B - Toxicology and PharmacologyGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What are the different types of toxicity, and how do they manifest in living organisms? K2 (2)
- 2) How do xenobiotics contribute to toxicity, and what are some examples of common xenobiotics? K1 (3)
- 3) What are the characteristic features of toxic responses in biological systems? K2 (4)
- 4) Explain the details of Systemic Toxic Effects. K2 (6)
- 5) What distinguishes teratogenicity from other types of toxicity? K3 (6)
- 6) What are some historical examples of toxicological disasters, and what lessons have been learned from them? K3 (9)
- 7) Analyze the mechanisms of xenobiotic metabolism, including phase I and phase II biotransformation reactions. K4 (8)
- 8) What is Cytochrome P450? Explain the importance and their role in detoxification of drugs. K4 (12)

OR

- Explain the process of Phase I reactions in the metabolism of xenobiotics, detailing the types of reactions involved, such as oxidations, hydrolysis, and reductions. K4 (12)