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ADMISSION NUMBER

School of Biological and Life sciences

Bachelor of Science Honours in Biomedical Science Semester End Examination - Aug 2024

Duration: 180 Minutes Max Marks: 100

Sem II & III- P1UA203B/B1050301T - Toxicology and Pharmacology

General 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 is Systematic and organ toxins? Give some examples.	K1(2)
2)	Differentiate between biological oxygen demand (BOD) and	K2(4)
	chemical oxygen demand (COD) as measures of water quality.	
3)	Explain the concept of hormesis in toxicology.	K2(6)
4)	What are some common routes through which people can be exposed to toxins in everyday life?	K3(9)
5)	· · · · · · · · · · · · · · · · · · ·	K3(9)
	Discuss the details of factors affecting Drug Metabolism.	
6)	What are the main neurotransmitter systems targeted by drugs acting on the central nervous system, and how do they modulate neuronal function?	K5(10)
7)	Brief the routes of drug administration and write their advantages.	K4(12)
8)	Define LD50 and LC50 and describe how these parameters are used to assess acute toxicity. Discuss the differences between LD50 and LC50, including their respective measurement methods and units.	K5(15)
9)	What are cyclooxygenases (COX) and what role do they play in the inflammatory response?	K5(15)
10)	Explore the applications of dose-response relationships beyond traditional toxicology, such as in pharmacology, environmental health, and risk assessment. Discuss how dose-response relationships are used to characterize the efficacy and safety of pharmaceuticals, assess environmental exposures, and develop regulatory guidelines for chemical substances	K6(18)

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