Name:

Enrolment No:



End Semester Examination, December 2024

Course: Pharmacology & Toxicology

Semester: 3

Program:BSc MicrobiologyDuration: 3 HoursCourse Code:HSCR2035PMax. Marks: 100

Instructions: Attempt all the question, draw suitable diagrams and flowcharts where necessary

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F		
	(20Qx1.5M=30 Marks)		
Q 1	Define the term 'pharmacology'	1.5	CO1
Q2	What is the mechanism of action of sulfasalazine?	1.5	CO1
Q3	Write the name of natural penicillin.	1.5	CO1
Q4	What is genotoxicity?	1.5	CO1
Q5	Differentiate broad and narrow spectrum antibiotics with example	1.5	CO1
Q6	What is the mechanism of synergistic effect shown by cotrimoxazole?	1.5	CO2
Q7	What is the difference between bactericidal and bacteriostatic drugs	1.5	CO2
Q8	Which drug is used in the treatment of congestive heart failure?	1.5	CO2
Q9	Define signal transduction mechanism.	1.5	CO2
Q10	Agonists are defined as	1.5	CO2
Q11	The surmountable effect is	1.5	CO3
Q12	The process of is considered as a sink condition.	1.5	CO3
Q13	Therapeutic index is the ratio of/	1.5	CO3
Q14	When two drugs are administered togetheris considered as Synergistic effect.	1.5	CO3
Q15	The graded response is also known as all or none response (True/ False)	1.5	CO3
Q16	Charcoal is an example of Physiological antagonist (True/False)	1.5	CO4
Q17	Pharmacodynamics is the process of what drug does to the body (True/False)	1.5	CO4
Q18	The effect of drug on unborn baby is considered as Teratogenesis (True/False)	1.5	CO4

Q19	Diuretics increase the urine output to lower the blood	1.5	CO4
	pressure (True/False)		
Q20	What is teratogenicity?	1.5	CO4
	Section B		
	(4Qx5M=20 Marks)		
Q 1	Discuss the mechanism of action of digitalis, in detail.	5	CO2
Q2	Define distribution, explain the mechanism of excretion.	5	CO2
Q3	Define pharmacodynamics, explain in detail about absorption.	5	CO2
Q4	Explain the mechanism of adverse drug reaction.	5	CO2
	Section C	_	
	(2Qx15M=30 Marks)		
Q1	Explain the term 'RAAS', discuss the significance of RAAS	15	CO3
	system in maintaining blood pressure, write the name any 2		
	drugs acting on RAAS to control hypertension (3+8+4)		
Q2	Write the mechanism of action any 5 drugs (3x5)	15	CO3
	i. Erythromycin iv. Tetracycline		
	ii. Penicillin G v. Amphotericin		
	iii. Sulfonamide vi. Cotrimoxazole		
	Section D		
	(2Qx10M=20 Marks)		
Q1	Explain in detail "Environmental toxicology and	10	CO4
	ecotoxicology".		
Q 2	Outline the mechanism of Gs and Gi mediated receptor	10	CO4
	activation and processing in detail.		