## Sem-1v = (CBSGIS) Phadmacology-I

QP Code: 21741

[ Total Marks: 70 (3 Hours) 12 PANE 26 N.B.: (1) All questions are compulsory. (2) Figures to right indicate full marks. 1. (a) Answer the following: Define:-(i) Bioavailability Bioequivalence (ii) Name the factors affecting plasma half life. (iii) What are enzyme linked receptors? Classify them giving examples of each type. (iv) Give classification of anti-hypertensive drugs. (v) What are the clinical uses of skeletal muscle relaxants? (vi) Give the mechanism of action of Reserpine. 15 (b) (i) Define metabolism. What purpose does it serve? 3 (ii) Enlist factors modifying drug action. (iii) Classify cholinergic muscarinic receptors giving examples of agonists and antagonists at these receptors. 2. (a) Answer any two of the following: What are phase I reactions? Give the different types of Phase I reactions? (ii) What are the various routes of administration of a drug? Write briefly 15+17 on each route. (iii) Explain the renal route of excretion (b) Write short notes on any one of the following: 3 (i) Discuss nephrotoxicity. Give examples of drugs causing nephrotoxicity. (ii) What are mutagens? How do they differ from carcinogens? 3. (a) Answer any two of the following: 8 Explain the effector pathways for GPCR. (ii) What is enzyme induction? Give examples of drugs which are potent enzyme inducers. (iii) What is drug potency, drug efficacy and drug selectivity? Explain with examples. (b) Answer any one of he following: Classify adrenergic alpha receptors. Give location and actions on their activation.

(ii) Write a short note on acetylcholine esterase inhibitors.

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4.	(a)	Answer any two of the following:	8
		(i) Describe synthesis, storage, release and metabolism of epinephrine and	0
		norepinephrine.	
		(ii) Explain in detail the therapeutic effects of anticholinergic drugs.	and the
		(iii) Classify ganglion blocking agents. Give the mechanism of action of any	31
		one drug.	249
		one drug.	
	(h)	Answer any <b>one</b> of the following:	(1)
	(0)		4/3
		(i) Explain the mechanism of action of tyramine.	
		(ii) Classify beta adrenoceptor antagonists. Give their uses in the therapy of	
		cardiovascular disease.	
			. 7
5.	(a)	Answer any two of the following:	8
		(i) Write a short note on calcium channel blockers in the management of	
		cardiovascular disease. Classify them giving examples of each class.	
		(ii) Classify drugs used in antihyperlipidemic therapy. Write a short note on	4941
		fibrates.	
		(iii) Classify anti-hypertensive drugs with examples. Write briefly about their	66
		mechanism of action.	
	(h)	Answer any one of the following:	3
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		(ii) What is the effect of digitalis glycosides in congestive cardiac failure.	
	<b>5</b> 1 21	22.	0
6.	(a)	Answer any two of the following:	8
		(i) Explain the use of diuretics in hypertension.	(O+)
		(ii) When will potassium sparing diuretics be administered to a patient?	6
		(iii) Give therapeutic classification of adrenergic drugs. Write a note on CNS	-71
		stimulants.	
	(b)	Answer any one of the following:	3
		(i) How does age and gender affect drug action?	
		(ii) Define TDM. What is its significance in drug therapy?	
		(1)	
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