NRT/KS/19/3158

B.Pharm. (Third Semester) (C.B.S.) Examination PHARMACOLOGY—I

Paper—4

Time : Three Hours] [Maximum Mar		
	N.B	 Question No. 1 is compulsory. Attempt any FOUR questions out of remaining. All questions carry marks as indicated. Draw neat labelled diagrams wherever necessary.
1.	Solv	ve any FIVE of the following:
	(a)	Explain plasma protein binding.
	(b)	How does bioavailability affect pharmacokinetics?
	(c)	Explain Dale vasomotor reversal phenomenon.
	(d)	Define bioassay and discuss its principles.
	(e)	Mention location and functions mediated through muscarinic receptors.
	(f)	Justify the use of adrenaline along with local anaesthetics.
	(g)	Differentiate between partial agonist and inverse agonist with suitable examples. 20
2.	Discuss various transducer mechanisms for drug action through receptors. Comment on secondary messenger system of G-protein coupled receptors.	
3.	-	lain absorption of drugs and various factors affecting absorption. Add a note on transport mechanism ass the cell membrane.
4.	(a)	Explain the mechanism of different allergic reactions. Discuss idiosyncrasy with examples. 8
	(b)	Discuss blood brain barriers. 7
5.	(a)	Describe different types of adrenergic receptors along with its location and physiological significance.
	(b)	Add a note on various adrenergic antagonists used clinically.
6.	(a)	Discuss in detail mechanism of action of acetylcholinesterase inhibitors. Add a note on use of pralidoxime in organophosphate poisoning.
	(b)	Explain in detail pharmacology of atropine. 7
7.	Write short notes on the following:	
	(a)	Biotransformation of drug
	(b)	Types of bioassay
	(c)	Neuromuscular blocking agents
	(d)	Ganglionic Blockers. 3×5=15