

Time: Three Hours]

NRJ/KW/17/4280

[Maximum Marks: 80

PHARMACEUTICAL MEDICINAL CHEMISTRY—I

Paper-2

	N.B.	:— (1) Question No. 1 is compulsory.	
		Attempt any four questions out of remaining.	
		Discuss the reaction, mechanism wherever necessary.	
1.	Attem	npt any five of the following:	
	(a) V	Write Chemical name, use and synthesis of phenobarbitone.	
	(b) I	Discuss about blood brain barrier.	
	(c) V	Write note on drugs used in treatment of Alzheimer's disease.	
	(d) E	Explain in detail about oxytocics.	
	(e) E	Enlist different physicochemical parameters affecting drug action. Explain any one of	them.
	(f) V	Write Chemical name, use and synthesis of tolbutamide.	
	(g) V	Write note on CNS stimulant agents.	5×4=20
2.	What	is Asthma? Classify chemically antiasthmatic agents. Give synthesis of any one drug	and write
	briefly	on antitussive and decongestant.	15
3.	(a) I	Discuss about thyroid hormones and antithyroid drugs.	7
	(b) E	Explain chemistry of hypoglycemic agents with examples.	8
4.	What	are different biological factors affecting drug metabolism? Write in detail about function	nalisation
		onjugation reactions with different examples.	15
5.	What	are NSAID's ? Explain salol principle with examples. Write in detail chemical classif	ication of
		D's giving synthesis and uses of Ibuprofen.	15
6.	(a) V	What is convulsion? Write chemistry of anticonvulsant agents with suitable examples	
	(b) V	Write note on prostaglandins and eicosanoids.	7
7.	Write	notes on any three of following	
	(a) P	Principles of prodrug design and applications	
	(b) I	Drugs used in Parkinsonism	
		Antidepressants	
	(d) I	Local anaesthetics.	3×5=15
		~	