REV-01 BPH/01/05

B. PHARM. FOURTH SEMESTER MEDICINAL CHEMISTRY-I BP402T [REPEAT]

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 min.

(PART-A: Objective)

Choose the correct answer from the following:

Acetylcholine is biosynthesised from

a. L-cysteine

c. L-Serine

Anticholinergic useful as spasmolytic is

a. Pyridostigmine

c. Tropicamide

b. Dicyclomine d. Glycopyrrolate

Which of the following are muscarine effect except? b. Bronchoconstriction a. Decrease Heart rate

c. Dryness of mouth

a. Codeine

c. Heroin

Acetylation of morphine yields?

b. Ethyl morphine

b. L-Codeine

d. L-Cholic acid

d. Hydromorphone

d. Intestinal cramping

Which of the following is used in the diagnosis of myasthenia gravis

a. Edrophonium

c. Pyridostigmine

b. Pilocarpine

d. Physostigmine

Which of the following is not a synthetic cholinergic blocking agent?

a. Tropicamide

c. Clinidium bromide

b. Atropine sulphate

d. Cyclopentolate

Drug that can cross Blood Brain Barrier is - in nature?

a. Lipophilic c. Amphoteric b. Hydrophilic d. All of the Above.

Phase-II of drug metabolism is also known as-

a. Synthetic Phase

b. Non-synthetic phase

c. Conjugation Phse

d. NOTA

Enzyme responsible for catabolism of Catecholamines are-?

a. COMT

b. MAO

c. Both

d. NOTA

10. A cholinesterase reactivator which is used as an antidote for Parathione?

a. Pyridostigmine

b. Parlidoxime chloride

c. Neostigmine

d. Ecothiophate

[1]

USTM/COE/R-01

2023/06

SET

Full Marks: 75

Marks: 20

1×20=20

11. Which of a. Morph c. Piloca	rphine	b.	rcotic antagonist agent? Heroin Nalorphine HCl
12. Which of a. Musca c. Kappa		b.	ls receptor? Sigma Mu
13. Which of a. Haloth	of the following is ultra	short acting barb	
14. IND stand a. Indian		b.	International New Drugs Intentional New Drugs
15. Precursor a. Tyrosi	or for the synthesis of (Catecholamines-? b.	Phenylamine Phenylalanine
	tibiotics was discovered?	d in the year-?	1920 1928
drug disco	scovery is known as-?	es or synthetic sub	stance with good binding ability in Lead compound IND
	of the following drugs i prolol	is not an alpha-ad b.	
a. 4-hydr phenyl	tabolised products of E droxy-3-methyl nylglycoaldehyde	b.	3-methoxy-4-hydroxy mandellic acid
20. Which typ	enylalanine ype of hydrogen bondi		4-methyl phenyl amine crease solubility, melting and boilinչ
point? a. Interm c. Both a	rmolecular hydrogen b i a & b		Intra molecular hydrogen bonding NOTA

PART-B: Descriptive

Tim	ne: 2 hrs. 30 min.	rks: 35
	[Answer any seven (7) questions]	
1.	Define Sedative and Hypnotics? Write the MOA of Benzodiazepines.	2+3=5
2.	Write a note on SAR of morphine analogue.	5
3.	Define general anesthetics and write the synthesis of halothane and its uses.	1+4=5
4.	Write a note on SAR of phenothiazeines.	5
5.	Write the structure, MOA and medicinal uses of Acetylcholine, Neostigmine.	2.5+2.5 =5
6.	Write a note on biosynthesis and catabolism's of catecholamines.	3+2=5
7.	Explain the factors effecting the drug metabolisms including stereochemical aspects.	5
8.	Write a note on phases of drug metabolisms.	5
9.	Write a note on SAR of benzodiazepines.	5

[PART-C: Long type questions]

[Answer any two (2) questions]

1.	Draw the structure and medicinal uses of phenobarbitone, methohexital sodium, chlorpromazine hydrochloride, barbital.	2+2+2+2+2=10
2.	Explain briefly the physiochemical properties of drugs in relation of their biological action.	10
3.	Write the structure, MOA and uses of any four beta blockers.	2.5+2.5+

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