REV-01 BPH/105/35/40

> B. PHARM. FOURTH SEMESTER MEDICINAL CHEMISTRY-I **BP402T**

[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

b. L-Codeine d. L-Cholic acid

Anticholinergic useful as spasmolytic is

a. Pyridostigmine

b. Dicyclomine

c. Tropicamide d. Glycopyrrolate

Which of the following are muscarine effect except?

a. Decrease Heart rate

b. Bronchoconstriction d. Intestinal cramping

c. Dryness of mouth

Acetylation of morphine yields?

a. Codeine

b. Ethyl morphine

c. Heroin

d. Hydromorphone

5. Which of the following is used in the diagnosis of myasthenia gravis a. Edrophonium b. Pilocarpine

c. Pyridostigmine

d. Physostigmine

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

b. Atropine sulphate

a. Tropicamide c. Clinidium bromide

d. Cyclopentolate

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

a. Lipophilic

b. Hydrophilic

c. Amphoteric

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

2023/06

SET

Marks: 20

1×20=20

Full Marks: 75

11.	Which of the following drugs is class a. Morphine	ified as narcotic antagonist agent? b. Heroin		
	c. Pilocarpine	d. Nalorphine HCl		
12.	Which of the following receptor is not an opioids receptor?			
	a. Muscarinic	b. Sigma		
	c. Kappa	d. Mu		
13.	Which of the following is ultra short acting barbiturates?			
	a. Halothane	b. Methohexital sodium		
	c. Ketamine HCl	d. Cyclopentolate		
14.	IND stands for-			
	a. Indian New Drugs	b. International New Drugs		
	c. Investigational New Drugs	d. Intentional New Drugs		
15.	Precursor for the synthesis of Catecholamines-?			
	a. Tyrosine	b. Phenylamine		
	c. Phenylephrine	d. Phenylalanine		
16.	First antibiotics was discovered in the year-?			
	a. 1982	b. 1920		
	c. 1945	d. 1928		
17.	Natural products or derivatives or synthetic substance with good binding ability in			
	drug discovery is known as-?	h Lood commound		
	a. Hit compound c. NDA	b. Lead compound d. IND		
18.	Which of the following drugs is not an alpha-adrenergic blocker-?			
	a. Bisoprolol	b. Prazosin		
	c. Tolazoline	d. Phentolamine		
19.	Final catabolised products of Epinephrine and norepinephrine is -?			
	a. 4-hydroxy-3-methyl phenylglycoaldehyde	b. 3-methoxy-4-hydroxy mandellic	aci	
	c. 3-phenylalanine	d. 4-methyl phenyl amine		
20.	Which type of hydrogen bonding is generally increase solubility, melting and boilin point?			
	a. Intermolecular hydrogen bondingc. Both a & b	b. Intra molecular hydrogen bondind. NOTA	g	

PART-B: Descriptive

Marks: 35 Time: 2 hrs. 30 min. [Answer any seven (7) questions] 1. and Hypnotics? Write MOA 2+3=5 Sedative the Benzodiazepines. 5 2. Write a note on SAR of morphine analogue. 3. Define general anesthetics and write the synthesis of halothane and 1+4=5 its uses. 4. Write a note on SAR of phenothiazeines. 5 5. Write the structure, MOA and medicinal uses of Acetylcholine, 2.5+2.5 Neostigmine. 6. Write a note on biosynthesis and catabolism's of catecholamines. 3+2=5 7. Explain the factors effecting the drug metabolisms including 5 stereochemical aspects. 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.	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+ 2.5+2.5 =10