REV-01 BPH/01/05

B. PHARM. SIXTH SEMESTER MEDICINAL CHEMISTRY-III

BP601T ISPECIAL REPEATI JUSE OMR SHEET FOR OBJECTIVE PARTI

Duration: 3 hrs.

(PART-A: Objective)

Time: 20 min.

Choose the correct answer from the following:

- 1. How many cyclic rings are present in tetracyclines?
 - a. 1
 - c. 5
- is the precursor molecule for the synthesis of Dapsone.
 - 3,4,5-Trimethoxybenzaldehyde c. PABS
- 3. Which drug is used in dermatitis? a. Sulphafurazole
 - c. Mefenide sodium
- 4. Which of the following is not macrolide antibiotics? a. Azithromycin
 - c. Gentamycin

a. Tetracycline

- 5. Which antibiotic works by inhibiting the cell wall synthesis?
- c. Refampin
- Which antibacterial works by interfering metabolism? a. Acyclovir
 - c. Tetracycline
- with..... a. Viral thiamidine kinase
- c. Deoxyguanosine triphosphate
- How many nitrogens are present in acyclovir? b. 6 a. 1
- 9. Hydroxychloroquine is a
- a. 4 amino quinoline

c. 2

- c. 8 amino quinoline

2023/08

SET

A

Full Marks: 75

Marks: 20

1×20=20

d. 1-Choloronitrobenzene

b. Sulphonamide

- b. Dapsone
- d. Prontosil
- b. Clarithromycin
- d. Spiramycin
- b. Miconazole
- d. Penicillin
- b. Metronidazole
- d. Amphotericin B
- b. Guanosine mono phosphate
- d. Both A and B

- d. 5
- b. 4 amino quinolone
- d. 8 amino quinolone

7. Acyclovir triphosphate inhibits the viral DNA polymerase by competing

10.	Which of the following is a analogue of deoxy guanine				
	a. Famciclovir		Acyclovir		
	c. Methisazone	d.	Sulphamethoxazole		
11	Give one example of 8 amino quinoline				
• • • • • • • • • • • • • • • • • • • •	a. Primaquine	b.	Amodiaquine		
	c. chloroquine	d.	Hydroxy chloroquine		
12.	Precursor of isoniazid is				
	a. 3 nitrophenol	b.	Acetaminophen		
	c. 4 picoline	d.	Nitropropane		
13	Replacement with 4 thioxo or sulphonyl gr	oun ir			
	a. Essential for the activity		Abolish the activity		
	c. Loss of activity		None of the above		
14	Nitration of anthranilic acid gives				
	a. Para amino salicylic acid	ь.	Salicylic acid		
	c. p- nitroanthranillic acid	d.			
15					
15.	QSAR stands for a. Quality structure action relationship	b.	Quantitative structure activity		
	Quanty structure action relationship	ь.	relationship		
	c. Quantitative structural activity	d.			
	relationship		relationship		
16.	F(physiological properties)=				
	a. Biological property		Physiological action		
	c. Biological activity	d.	Physiological activity		
17.					
	a. Thirty		Four		
	c. Three	d.	One		
18.	Which drug metabolised by acetylation is				
	a. Rifampicin	c.	Ethambutol		
	b. isoniazid	d.	Dapsone		
19.	Which is a natural tetracycling				
	a. Doxycycline	b.	Chlortetracycline		
	c. Hexacycilne	d.	The state of the s		
20.					
20.	Beta lactam is also known as a. Amino acetyl	h	Cyclic amide		
	c. Sulphathiazole		None of the above		
			Tione of the trove		

PART-B: Descriptive

Time: 2 hrs. 30 min. Marks: 35 [Answer any seven (7) questions] Define antibiotic and beta lactum. Write the types of beta lactum 1+1+3 antibiotic with structure. Write the SAR of penicillin or cephalosporins. 5 3. Explain aminoglycosides. Write the classification of amino 2+3=5 glycosides. 5 Write the SAR of tetracyclines. Write the classification of antiviral drugs. Write the synthesis of 3+2=5 acyclovir. Write the synthesis of followings 2.5+2.5 a. Para amino salicylic acid b. Isoniazid 5 7. Write the MOA of acyclovir. Define prodrugs. Write the classification and application of 1+2+2 =5 prodrugs. 9. Write the SAR of quinolines. 5

PART-C: Long type questions

[Answer any two (2) questions]

1.	Give a brief account of combinatory chemistry and difference between solid phase and solution phase synthesis.	5+5=10
2.	Define QSAR and aims and objectives of QSAR. Classify the QSAR models with standard plot diagram.	1+4+5 =10

3. Define sulphonamide and write the SAR of sulphonamide. Classify it and write the synthesis of dapsone.