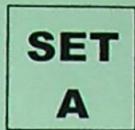


**B. PHARM.  
SIXTH SEMESTER  
MEDICINAL CHEMISTRY-III  
BP601T [SPECIAL REPEAT]  
[USE OMR SHEET FOR OBJECTIVE PART]**

**Duration : 3 hrs.**

Full Marks : 75



Times 20

**Marks : 20**

$$1 \times 20 = 20$$

**Choose the correct answer from the following:**

11. Give one example of 8 amino quinoline  
a. Primaquine  
c. chloroquine  
b. Amodiaquine  
d. Hydroxy chloroquine
12. Precursor of isoniazid is.....  
a. 3 nitrophenol  
c. 4 picoline  
b. Acetaminophen  
d. Nitropropane
13. Replacement with 4 thioxo or sulphonyl group in the quinoline leads to  
a. Essential for the activity  
c. Loss of activity  
b. Abolish the activity  
d. None of the above
14. Nitration of anthranilic acid gives.....  
a. Para amino salicylic acid  
c. p- nitroanthranilic acid  
b. Salicylic acid  
d. Urea
15. QSAR stands for  
a. Quality structure action relationship  
c. Quantitative structural activity  
relationship  
b. Quantitative structure activity  
relationship  
d. Qualitative structure activity  
relationship
16. F(physiological properties)= .....  
a. Biological property  
c. Biological activity  
b. Physiological action  
d. Physiological activity
17. How many models are observed in QSAR- analysis?  
a. Thirty  
c. Three  
b. Four  
d. One
18. Which drug metabolised by acetylation is  
a. Rifampicin  
c. isoniazid  
b. Ethambutol  
d. Dapsone
19. Which is a natural tetracyclining  
a. Doxycycline  
c. Hexacyciline  
b. Chlortetracycline  
d. Methacycline
20. Beta lactam is also known as  
a. Amino acetyl  
c. Sulphathiazole  
b. Cyclic amide  
d. None of the above

## PART-B :Descriptive

Time : 2 hrs. 30 min.

Marks : 35

*[Answer any seven (7) questions]*

1. Define antibiotic and beta lactum. Write the types of betalactum antibiotic with structure.  $1+1+3 =5$
2. Write the SAR of penicillin or cephalosporins.  $5$
3. Explain aminoglycosides. Write the classification of amino glycosides.  $2+3=5$
4. Write the SAR of tetracyclines.  $5$
5. Write the classification of antiviral drugs. Write the synthesis of acyclovir.  $3+2=5$
6. Write the synthesis of followings  $2.5+2.5 =5$ 
  - a. Para amino salicylic acid
  - b. Isoniazid
7. Write the MOA of acyclovir.  $5$
8. Define prodrugs. Write the classification and application of prodrugs.  $1+2+2 =5$
9. Write the SAR of quinolines.  $5$

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### PART-C: Long type questions

[ Answer any two (2) questions ]

- Give a brief account of combinatory chemistry and difference between solid phase and solution phase synthesis. 5+5=10
  - Define QSAR and aims and objectives of QSAR. Classify the QSAR models with standard plot diagram. 1+4+5=10
  - Define sulphonamide and write the SAR of sulphonamide. Classify it and write the synthesis of dapsone. 1+4+3+2=10

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