

**B.Pharm. (CBCS Pattern) Semester-VI**  
**BP601T - Medicinal Chemistry-III**

P. Pages : 3

Time : Three Hours



**GUG/W/24/14137**

Max. Marks : 75

Notes :

1. All questions are compulsory.
2. Illustrate your answers wherever necessary with the help of neat sketches.

### 1. Multiple Choice Questions.

**20x1  
=20**

- 1) Which of the followings are drug design software?
  - a) Ligbuild
  - b) Score
  - c) XLOGP
  - d) All of above
- 2) In which synthesis solid support used in combinatorial chemistry?
  - a) Liquid phase synthesis
  - b) Solid phase synthesis
  - c) Phase-I synthesis
  - d) None
- 3) Hammett's constant used to find which parameter?
  - a) Electronic
  - b) Hydrophilic
  - c) Steric
  - d) Lipophilic
- 4) Sulphonamides inhibits PABA incorporation -----.
  - a) Competitively
  - b) Non-competitively
  - c) Proportionally
  - d) None of these
- 5) Griesofulvin act on -----
  - a) Cox
  - b) Arabinogalactone
  - c) Microtubules
  - d) Both b and c
- 6) Fluconazole act on -----
  - a) Lacto bacillus
  - b)  $14\alpha$  - demethylase
  - c) Cox
  - d) All of the above
- 7) Tolnafate is synthesized from -----.
  - a) Catechol
  - b) Phenol
  - c) Benzil
  - d) 2-naphthol
- 8) Which one is anti-tubercular antibiotic?
  - a) Pyrazinamide
  - b) INH
  - c) Rifampicin
  - d) Amikacin
- 9) Synthetic precursor for acyclovir -----.
  - a) Pamaquine
  - b) Mepacrine
  - c) Guanine
  - d) Cytosine



- b) Classify anti-tubercular agents with suitable examples. Explain in detail about antitubercular antibiotics.
- c) What is sulphonamide? Classify them with examples. Explain in detail about mechanism of action, SAR and therapeutic uses of sulphonamides.

**3. Solve any seven.**

**7x5  
=35**

- a) Write a short on beta lactamase inhibitors.
- b) Give various applications of prodrugs.
- c) Write a note on 8 aminoquinoline derivatives as antimalarials.
- d) Explain SAR of Quinolones as antibacterial agents.
- e) Write a note on HIV reverse transcriptase inhibitors.
- f) Write structure, chemical name, MOA and uses of Griseofulvin.
- g) Write a note on sulphone derivative.
- h) Outline synthesis and clinical uses of nitrofurantoin and trimethoprim.
- i) Explain various approaches used in drug design.

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