



Note: All questions are compulsory.

## 1. Multiple choices questions

**20x1**

**=20**

- [illegible]

- 14) Chloramphenicol is used for the treatment of
  - a) Brain fever
  - b) Hay fever
  - c) Typhoid fever
  - d) Pneumonia
- 15) Tubercular drug are acts by inhibit the
  - a) Mycolic acid synthesis
  - b) Purine synthesis
  - c) Protein synthesis
  - d) DNA synthesis
- 16) Chemically INH is
  - a) Isonicotinic acid hydrazide
  - b) Nicotinic acid
  - c) Nicotinic hydrazine
  - d) Acid hydrazine
- 17) Which is anti-tubercular antibiotic?
  - a) Rifampicin
  - b) Pyrazinamide
  - c) Amikacin
  - d) Isoniazid
- 18) Clotrimazole is used for
  - a) Bacterial infection
  - b) Candidiasis
  - c) Meningitis
  - d) Fever
- 19) Which parameter is use to find steric property
  - a) Taft steric constant
  - b) Free Wilson
  - c) Hansch analysis
  - d) Hammett constant
- 20) QSAR is
  - a) Quantitative structure activity relationship
  - b) Qualitative structure activity relationship
  - c) Qualitative structure scan report
  - d) Quantity structure action report

2. Long answer question solve **any two**. **2x10=20**
  - 1) Discuss mechanism of action and SAR of cephalosporin.
  - 2) Discuss mechanism of action and SAR of tetracycline.
  - 3) Write classification of antimalarial drugs with example and give SAR of quinolines as antimalarial drug.
3. Short answer questions solve **any seven**. **7x5=35**
  - 1) Write note on MOA of penicillin and bacterial resistance to penicillin.
  - 2) Discuss about degradation of cephalosporin.
  - 3) Give structure of streptomycin and discuss mechanism of action and uses of streptomycin.
  - 4) Discuss basic concept and applications of prodrug design with suitable example.
  - 5) Discuss synthesis and therapeutic uses of chloramphenicol.
  - 6) Write note on macrolides.
  - 7) Write classification of anti-tubercular drugs and give synthesis of isoniazid.
  - 8) Give mechanism of action, synthesis and uses of dapsone.
  - 9) Give mechanism of action, synthesis and uses of trimethoprim.

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