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### SHREE H.N. SHUKLA GROUP OF COLLEGES

[AFFILIATED TO SAURASHTRA UNIVERSITY]

## M.Sc. Chemistry (Sem - IV) <u>Question Bank (2022-23)</u>

#### C-402 CHEMISTRY OF SYNTHETIC DRUG

#### Q 1. Give the answer of following questions (1 marks each)

- 1. What is gastrointestinal track drug?
- 2. Define the term Sedative and Hypnotics.
- 3. Enlist all generation of Cephalosporin.
- 4. Enlist disease in which chemotherapeutic agents are employed.
- 5. Write the synthesis of Dicycloamine.
- 6. Define: 'Mucolytic'
- 7. Enlist the proton pump inhibitor drug.
- 8. Draw the structure of thiopentone.
- 9. Give the examples of anti-malarial drug.
- 10. What are Anti-HIV agents?
- 11. Write the synthesis of Rosiglitazone.
- 12. What are  $H_2$  receptor antagonists?
- 13. Explain the term Antibiotics.
- 14. Define the term Expectorants.
- 15. Write the full form of HIV.
- 16. Enlist the inorganic compounds used as Diuretic agents.
- 17. Draw the structure of Zidovudine.
- 18. Give the synthesis of sulfa pyridine.
- 19. Draw the structure of Amantadine.
- 20. Draw the structure of Amoxicillin.

#### Q 2.Give the answer of any two following questions (4 marks each)

- 1. Write the synthesis of Chloroquine and Primaquine.
- 2. Give the synthesis of Omeprazole and ranitidine.
- 3. Give the classification of gastrointestinal drug with suitable example.
- 4. Draw the lifecycle of malaria.
- 5. Classify anticancer agents.
- 6. Classify antibiotics on the basis of their action.
- 7. Write the synthesis of isoniazid and pyrazinamide.
- 8. Classify Diuretics.
- 9. Write the synthesis of rosiglitazone.
- 10. What is anti-asthmatic drug? Write the synthesis of Salbutamol.

#### Q 3. Give the answer of any Two following questions (7 marks each)

- 1. Write the classification of cephalosporin drug and give at least one synthesis of second generation drug.
- 2. Classify anti-diarrheal drug and write the synthesis of any two of them.
- 3. Give the classification of anti-tubercular agents with its structure.
- 4. Write the classification of hypoglycemic agents. Give the synthesis of Chlorpropamide and Phenformin.
- 5. Write the general synthesis of sulfonamide and write the structure of Silver sulfadiazine and Sulfadoxine.
- 6. Define and classify anti-cancer agents. Give the synthesis of any one nitrogen- mustered drug.
- 7. Write the general synthesis of Sulfa drugs and give its application.
- 8. Give the classification of anti-fungal drug and write the synthesis of Miconazole and Tolnaftate.
- 9. Write the general synthesis Flouro-quinolone drug and discuss its SAR.
- 10. Define the term Adrenergic and Antiadrenergic. Discuss synthesis of each two.
- 11. Write the synthesis of Amlodipine and Propranolol.
- 12. Define local anesthetic and give the Synthesis of Verapamil and Lignocaine.
- 13. Discuss the synthesis of Metronidazole and Ornidazole.
- 14. Write the synthesis of Atovaquone and Proguanil
- 15. Give the synthesis of Non sedative anti allergic drugs.

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17. Explain cardiovascular drugs and discuss the synthesis of any three.
18. Discuss and explain Nonsteroidal anti-inflammatory drugs and discuss any two synthesis.
19. Draw a malarial life cycle and explain in brief.
20. Write the synthesis of Ibuprofen and Nimesulide.
21. Write the synthesis of Cetirizine and Terfinadine.