

(AFFILIATED TO SAURASHTRA UNIVERSITY & GTU)

2-Vaishali nagar, Near amrapali railway crossing, Raiya road, Rajkot- 360 001. Ph.No.-(0281) 2440478, 2472590

3-Vaishali nagar, Near amrapali railway crossing, Raiya road, Rajkot- 360 001. Ph.No.-(0281) 2224362 Behind marketing yard, Near Lalpari lake, Between Amargadh-Bhichri, Rajkot- 360 002. Ph.No. 90990 63150

M.Sc. Chemistry Semester IV (CBSE)

C-402 Chemistry of synthetic drug

Question bank

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

- Q 1. Define the term Sedative and Hypnotics.
- Q 2. Enlist all generation of Cephalosporin.
- Q 3. Enlist disease in which chemotherapeutic agents are employed.
- Q 4. Write the synthesis of Dicycloamine.
- Q 5. Define: 'Mucolytic'
- Q 6. Enlist the proton pump inhibitor drug.
- Q 7. What is gastrointestinal track drug?
- Q 8. What are Anti-HIV agents?
- Q 9. Write the synthesis of Rosiglitazone.
- Q 10. What are H2 receptor antagonists?
- Q 11. Explain the term Antibiotics.
- Q 12. Define the term Expectorants.
- Q 13. Draw the structure of thiopentone.
- Q 14. Give the examples of anti-malarial drug.
- Q 15. Enlist the inorganic compounds used as Diuretic agents.
- Q 16. Draw the structure of Amoxicillin.
- Q 17. Give the synthesis of sulfa pyridine.
- Q 18. Draw the structure of Amantadine.
- Q 19. Write the full form of HIV.
- Q 20. Draw the structure of Zidovudine.

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

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

Q. Give the answer of any Two following questions (seven marks each)

- Q 1. Classify anti-diarrheal drug and write the synthesis of any two of them.
- Q 2. Write the general synthesis of Sulfa drugs and give its application.
- Q 3. Give the classification of anti-tubercular agents with its structure.
- Q 4. Write the classification of hypoglycemic agents. Give the synthesis of Chlorpropamide and Phenformin.
- Q 5. Write the general synthesis of sulfonamide and write the structure of Silver sulfadiazine and Sulfadoxine.
- Q 6. Define and classify anti-cancer agents. Give the synthesis of any one nitrogen-mustered drug.

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- Q 7. Write the classification of cephalosporin drug and give at least one synthesis of second generation drug.
- Q 8. Write the general synthesis Flouro-quinolone drug and discuss its SAR.
- Q 9. Give the classification of anti-fungal drug and write the synthesis of Miconazole and Tolnaftate.
- Q 10. Write the synthesis of Amlodipine and Propranolol.
- Q 11. Define local anesthetic and give the Synthesis of Verapamil and Lignocaine.
- Q 12. Discuss the synthesis of Metronidazole and Ornidazole.
- Q 13. Write the synthesis of Atovaquone and Proguanil.
- Q 14. Give the synthesis of Non sedative anti allergic drugs.
- Q 15. Define the term Adrenergic and Antiadrenergic. Discuss synthesis of each two.
- Q 16. Explain cardiovascular drugs and discuss the synthesis of any three.
- Q 17. Discuss and explain Nonsteroidal anti-inflammatory drugs and discuss any two syntheses.
- Q 18. Draw a malarial life cycle and explain in brief.
- Q 19. Write the synthesis of Ibuprofen and Nimesulide.
- Q 20. Write the synthesis of Cetirizine and Terfinadine.

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