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| Subject Title: Medicinal Chemistry | | Prepared by: K.Sandhya |
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| Year: III | Semester: VI | Updated on:25-3-19 |

Unit - I:

- Define the following terms. a) Drug b) Pharmacology c) Pharmacophore d)Phrmacodynamics
 e)Pharmacokinetics f) Metabolites g) Antimetabolites
- 2. Write a note on Therapeutic Index.
- 3. Explain the classification of drugs with examples based on structure & therapeutic ativity.
- 4. Describe the mechanism of ADME.
- 5. Explain routes of administration of drugs?
- 6. What is disease? Explain different types of diseases with their preventive methods.

Unit - II:

- 7. Define Enzyme? Write the mechanism of enzyme action.
- 8. Write about the factors affecting enzyme action.
- 9. Give a note on enzyme specificity.
- 10. Explain enzyme inhibitors and their importance.
- 11. Discuss about the types of inhibition wih examples.
- 12. Define receptors? Explain drug-action receptor theory.
- 13. Describe mechanism of drug-action.
- 14. Write the concept of Agonist & Antagonist with examples.
- 15. Explain Drug-receptor interactions involved in dug-rceptor complex.
- 16. What is the role of –OH,NH₂ group in drug-receptor binding.
- 17. What is the role of Quarternery Ammonium salts & double bond in drug-receptor binding.
- 18. Explain structure-activity relationships of drug molecules with suitable example.

Unit - III:

- 19. Write Synthesis & Therapeutic activity of 1) Sulphanilamide 2)Dapsone 3)Penicillian-G
- 20. Write Synthesis & Therapeutic activity of Chloroquine.

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- 21. Write Synthesis & Therapeutic activity of AZT.
- 22. Write Synthesis & Therapeutic activity of Cisplatin.
- 23. Write Synthesis & Therapeutic activity of Isoniazide.
- 24. Explain about the antidiabetic drugs with suitable examples.
- 25. Write a note on antiinflamatrey drug.
- 26. Explain antipyretic drugs with example.
- 27. Give short notes on Omeprazole.
- 28. Define Anesthetics? Give its classification.
- 29. Give a short notes on local anesthetics with examples.
- 30. Give the advantages and disadvantages of Nitros oxide and chloroform.

Unit - IV:

- 31. Write a short notes on a) Hormones b) Neurotransmitters
- 32. Explain anti thyroid drug Carbimazol.
- 33. Explain sources & deficiency disorders and remedy of vitamins A,D,E.
- 34. Explain sources & deficiency disorders and remedy of vitamins K,B,C.
- 35. Explain about anti Parkinson drug-Levodopa.
- 36. Give a note on Adrenergic drugs-Salbutamol, Atenelol.
- 37. Explain about Fluoxetine.
- 38. Give a note on micronutrients and it's sources, deficiency disorders.