

10 MARKS

- 1.a) What are sedative and hypnotics? Classify sedative and hypnotics.
- b) Discuss the structural activity relationship of benzodiazepines and outline the synthesis of Diazepam.
- 2.a) Define and classify sedatives and hypnotics with suitable examples. (3)
- b) Summarize the SAR of benzodiazepines. (3)
- c) Write the synthesis and use of diazepam. (4)
- 3.a) Discuss the structural activity relationship of barbiturates.
- b) Sketch the structure of Glutethimide and meprobamate and its medicinal uses.
4. Classify antipsychotics giving two examples with structures for each class. Write the structural activity relationship and mode of action of phenothiazine
Antipsychotics
5. Classify Anti psychotic drugs. Write the synthesis of chlorpromazine.
6. Explain the SAR of Hydantoins with structures. Write the structure and uses of succinimides.
- 7.. a) Classify sedative and hypnotics with examples.
- b) Discuss the structural activity relationship of Barbiturates.

5 MARKS

1. Present the SAR of phenothiazines.
2. Describe about anticonvulsants with appropriate chemical structures.
3. Write a short note on anti-psychotic drugs.
4. Discuss the structural activity relationship of anticonvulsants and outline the synthesis of ethosuximide
5. Explain the mechanism of action of Barbiturates and outline the synthesis of

barbital.

6. Outline the synthesis of carbamazepine and mention its uses.

7. Synthesis and uses of barbitol sodium.

8. Discuss the structural activity relationship of Phenothiazine.

9. a) Outline the synthesis of Chlorpromazine and its medicinal uses.

b) Write the structure of Trifluoperazine and Thioridazine and mention their uses.

10. Write a note on phenothiazines as antipsychotic agents

11. What are anticonvulsants? Write the SAR of barbiturates.

12. Explain the formation of action potential and outline the synthesis of phenytoin.

13. Classify antipsychotics and write the structure and uses of (a) Prochlorperazine maleate (b) Thiothixene.

14. Describe in detail the structural activity relationship of hydantoin class of anticonvulsant drugs.

15. Describe in detail ring analogues of phenothiazine class of antipsychotic drugs.

16. Classify sedatives and hypnotics. Outline the synthesis of diazepam.

17. Write a brief note on benzodiazepines as anticonvulsant agent

18. SAR of anti convulsants.

19. SAR of phenothiazines.

20. Structure and uses of lorazepam

21. Outline the synthesis of Carbamazepine

22. Describe in detail the structural activity relationship of barbiturates class of sedatives and hypnotics.

23. Write the synthesis and medicinal uses of Ethosuximide.

24. Write the synthesis of Phenytoin.

25. Write the synthesis of Diazepam.

- 26.Explain the structural activity relationship of Benzodiazepines.
- 27.Write a note on Fluorobutyrophenones.
- 28.Write the synthesis of Carbochol and Barbitol.
- 29.Discuss the structural activity relationship of Phenothiazines.

2 MARKS

- 1.Mechanism of action of barbiturates.
- 2.Mechanism of action of sedatives and hypnotics.
- 3.Clinical uses of diazepam.
- 4.Write briefly on the mechanism of action of phenothiazine.
- 5.Give the structure and medicinal uses of any one fluorobutyrophenones.
- 6.Write briefly on mechanism of action of phenytoin.
7. What happens on replacement of oxygen atom by sulphur atom on carbon-2 of barbiturates structure? Give its actions and uses
- 8.What happens on the replacement of N-H moiety of phenothiazine ring with a carbon atom doubly bonded to propylidene side chain. Sketch the structure and its stereo selectivity.
- 9.Clinical uses of alprazolam.
- 10.Structure and uses of phenobarbitone
- 11.Structure and use of phenytoin.
- 12.Sketch the structure of lorazepam and explain why it produces increased activity.
13. Sketch the structure of clonazepam and valproic acid and its uses.
14. Give the structure, IUPAC name and medicinal uses of alprazolam
- 15.Give the structure of (a) Chlordiazepoxide (b) Meprobamate.
- 16.Outline the synthesis of Phenytoin
- 17.Give the structure of (a) Phenobarbital (b) Paraldehyde.

18. Outline the synthesis of Chlorpromazine hydrochloride.
19. Write the structure of any two hydantoins.
20. Define sedatives and hypnotics
21. Give the structure of (a) Thioridazine hydrochloride (b) Haloperidol.
22. Outline the synthesis of Barbitol.
23. Write the structure of any two succinimides.
24. Mechanism of action of diazepam
25. Name the ring analogues of phenothiazines.
26. Mechanism of Action of Chlorpromazine.
27. Any two structure belongs to Succinimides.
28. Two examples for Ring analogue of phenothiazine.