

M.Sc. DEGREE EXAMINATION
FOURTH SEMESTER
22CH4D4: Antibiotics Drugs Vitamins and Steroid hormones
Time: 3 hours **Maximum Marks: 70**

SECTION - A

5X4=20M

- 1) (a) Explain the synthesis of Amoxicillin. (CO-3,L-3)
(OR)
(b) Explain the structure of β -lactam ring. (CO-3,L-3)
- 2) (a) Write an account of Synthesis of camptothecin. (CO-2,L-2)
(OR)
(b) Write notes on chemotherapy. (CO-2,L-2)
- 3) (a) Explain the CNS activity of strychnine. (CO-2,L-2)
(OR)
(b) Write an account of neuro transmitters. (CO-2,L-2)
- 4) (a) Write the synthesis of paludrin and quinacrin. (CO-2,L-2)
(OR)
(b) Write the synthesis of Diphenyl-Chlorophene-2,4,4-trichloro-2-hydroxydiphenyl ether and aminocerine hydrochloride. (CO-2,L-2)
- 5) (a) Discuss the synthesis of Thyroxin. (CO-3,L-3)
(OR)
(b) Discuss the synthesis of vitamin-K. (CO-3,L-3)

Section-B

5X10=50M

- 6) (a) Discuss the structure elucidation and synthesis of Chloramphenicol. (CO-3,L-3)
(OR)
(b) Discuss cell wall biosynthesis. (CO-3,L-3)
- 7) (a) Explain the structure and synthesis of Vincristine. (CO-3,L-3)
(OR)
(b) Explain the structure and synthesis of Taxol. (CO-3,L-3)
- 8) (a) What are sedatives? Compare their mode of action. (CO-4,L-4)
(OR)
(b) What are hypnotics? Compare their mode of action. (CO-4,L-4)
- 9) (a) Elaborate the various methods of preparation and synthesis of Sulpha drugs. (CO-3,L-3)
(OR)
(b) Elaborate the various methods of preparation and synthesis of Antiamoebic agents. (CO-3,L-3)
- 10) (a) Assess the structure elucidation and synthesis of Vit A1. (CO-5,L-5)
(OR)
(b) Evaluate the structure elucidation and synthesis of Progesterone. (CO-5,L-5)
