

1. Describe the Importance and Synthesis of Vitamin A2.

Elucidate the position of side chain & angular methyl group in the Cholesterol.

OR

Q.3 Answer the following:

- 14
- 1. Establish the position of hydroxyl group & double bond in Cholesterol.
- 2. Give the Importance and Synthesis of (i) Pentothenic acid (ii) Pyridoxine

Q.4 Answer any **TWO** of the following:

14

- 1. Describe Occurrence, Pharmaceutical activity and Total Synthesis of Griseofulvin.
- 2. Write a note on Synthesis of 2'-deoxyribonucleosides.
- 3. Describe N-protection and C-activation strategy for peptide synthesis in detail.

Q.5 Answer any **TWO** of the following:

14

- 1. Describe Occurrence, Pharmaceutical activity and Total synthesis of (i) Bursehemin (ii) Lutonin.
- 2. Write a note on Enzyme Catalyzed following reactions:
 - (i) Addition-Elimination (ii) C-C bond forming
- 3. Provide detailed Classification of Amino acids.
- 4. Give Importance and Synthesis of (i) Folic acid (ii) Niacin.