

35011 : Pharmaceutical Chemistry – III
(Heterocyclic & Natural Products) : II-T-4

P. Pages : 1

Time : Three Hours

**AW - 2266**

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **any eight** question.
 3. Discuss the reaction, mechanism wherever necessary.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. What are terpenes? Give the chemistry and pharmacological activity of sesquiterpenes. 10
2. a) Give the brief account on Artemisinin. 5
b) Discuss in detail about β eta – carotenoids. 5
3. Discuss the chemistry of lipids and amino acids. 10
4. What are carbohydrates? Discuss the chemistry of carbohydrates in detail. 10
5. What are glycosides? Explain the chemistry of Digoxin and Diosgenin. 10
6. Discuss the concept of stereo isomerism with examples of natural products. 10
7. What are carotenoids? Discuss the chemistry of alpha-carotenoids. 10
8. Give the chemistry preparation? And properties of phenothiazine. 10
9. a) Give the brief account on Taxol. 5
b) Discuss in detail about Xanthophylls. 5
10. Write a note on **any two**. 10
 - a) Proteins.
 - b) Papaverine.
 - c) Cardiac glycosides.
