

AV - 2298

Second Year B. Pharm. (Annual Pattern) Examination

PHARMACEUTICAL CHEMISTRY - III
(HETEROCYCLIC AND NATURAL PRODUCTS)

Paper - II-T-4

(USC - 35011)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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

1. What are monoterpenes ? Give the chemistry and pharmacological activity of sesquiterpenes. 10
2. What are xanthophylls ? Discuss the chemistry of Beta-Carotenoids. 10
3. What are alkaloids ? Give the chemistry and pharmacological activity of ephedrine. 10
4. What are Glycosides ? Give the chemistry of sennosides and dizitoxin. 10
5. What are lipids ? Discuss chemistry of proteins in detail. 10
6. Give the chemistry, preparation and properties of isoquinoline. 10
7. Give the brief account of chemistry and medicinal uses of Taxol and derivatives. 10

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8. Discuss the concept of stereoisomerism with example of natural product. 10
9. Discuss the chemistry of proteins and nucleic acids. 10
10. Write notes on (Any Two) :—
- (i) Vinca alkaloids
 - (ii) Indole
 - (iii) Application of Terpens. 10

