Roll No.							Total No. of Pages: 0

Total No. of Questions: 06

M. Pharmacy (Sem.-2) BIO ORGANIC CHEMISTRY Subject Code: PHCHM-516 Paper ID: [E0224]

Time: 3 Hrs. Max. Marks: 80

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries SIXTEEN marks.
- 1. a) Describe the mevalonic acid pathway for the biosynthesis of cholesterol.
 - b) Describe the structures and medicinal uses of steroidal secondary sex hormones.
- 2. a) Classify alkaloids on the basis of heterocyclic nucleus with one structural example.
 - b) Describe the degradation methods of structure elucidation of Morphine.
- 3. a) What is the difference between terpenoids and terpene? Give outline for the general method of isolation of terpenes.
 - b) Describe the chemistry of abietic acid.
- 4. a) What are glycosides? Describe the chemistry of cardiac glycosides.
 - b) What are lignins? Describe the chemistry and medicinal uses of any two compounds of this class.
- 5. a) Describe chiral resolution of propranolol.
 - b) Give a brief account of biotechnologically produced drugs.
- 6. a) Describe synthesis and medicinal uses of the ophyllin.
 - b) Describe the chemistry and medicinal uses of Carotenoids.

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