

Code No. : B03/402(B)

(D) Give structure elucidation of haemin. 12

Or

Give synthesis of chlorophyll.



Roll No.

Total No. of Sections : 4

Total No. of Printed Pages : 4

Code No. : B03/402(B)

III Semester Examination

M.Sc.

CHEMISTRY

Paper IV(B)

[Natural Product]

Time : Three Hours]

[Maximum Marks : 80

[Min. Passing Marks : 16

Note : Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.

Unit-I

1. (A) What is isoprene rule ? 2
- (B) What are terpenoids ? 2
- (C) Explain structure of citral. 4

Code No. : B03/402(B)

Or

Explain structure of Menthol.

(D) Discuss structure elucidation of Zingiberene.

12

Or

Discuss structure elucidation of Phytol.

Unit-II

2. (A) Explain role of alkaloids in plants. **2**

(B) What are alkaloids ? **2**

(C) How will you confirm presence of carboxylic acid group in alkaloids ? **4**

Or

Give synthesis of Quinine.

(D) Discuss chemistry of Morphine. **12**

Or

Explain occurrence, isolation and general methods of structure elucidation of alkaloids.

Code No. : B03/402(B)

Unit-III

3. (A) What is Diel's hydrocarbon ? **2**

(B) What are hormones ? **2**

(C) Explain biosynthesis of steroids. **4**

Or

Give synthesis of estrene.

(D) Discuss chemistry of aldosterone. **12**

Or

Discuss chemistry of bile acid.

Unit-IV

4. (A) What is globin ? **2**

(B) What is Apigenin ? **2**

(C) Give functions of anthocyanins. **4**

Or

Explain basic structure of flavone.