

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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B.A./B.Sc. (General) 6th Semester

(2055)

CHEMISTRY

(Same for B.Sc. Microbial and Food Technology)

Paper-XXII : Organic Chemistry-B

Time Allowed : Three Hours]

[Maximum Marks : 22

Note :— Attempt *five* questions in all including Question No. 9 which is compulsory question and selecting *one* question each from Units I to IV.

UNIT—I

1. (a) What do you mean by solid-phase peptide synthesis ? Give its importance.
- (b) Explain the terms ribonucleosides and ribonucleotides. 2,2
2. (a) What do you mean by end group analysis of peptides ?
- (b) What is isoelectric point ? Give the role and importance of isoelectric point. 2,2

UNIT—II

3. (a) Give the mechanism of Ziegler-Natta Polymerization.
- (b) What are phenol formaldehyde resins ? 2,2

4. (a) Differentiate between natural and synthetic rubbers with examples.

(b) What do you mean by epoxy resins and polyurethanes ?
2,2

UNIT—III

5. (a) Explain alkylation and acylation of enamines.

(b) What do you mean by Keto-enol tautomerism of ethyl acetoacetate.
2,2

6. (a) Explain the term enolates and give examples.

(b) Explain the term Claisen condensation. 2,2

UNIT—IV

7. (a) Explain the mechanistic details of Simmon Smith reaction.

(b) Explain the reaction of Grignard's reagents with α , β -unsaturated carbonyl compounds. 2,2

8. (a) Give the formation and chemical reactions involved in Organomagnesium compounds.

(b) Explain method of preparation of diethyl zinc and its uses.
2,2

(Compulsory Question)

9. (a) What do you mean by selective hydrolysis of peptides ?

(b) What is chain growth polymerization ?

(c) Explain resonating structures of carbanion of malonic ester.

(d) What is the role of dry ether in the preparation of Grignard's reagents. $4 \times 1.5 = 6$