

No. of Printed Pages : 04

Roll No. ....

**C65**

**B. Tech. EXAMINATION, 2020**

(Third Semester)

(B Scheme) (Re-appear Only)

(BT)

BT209B

ORGANIC CHEMISTRY

*Time : 2½ Hours]*

*[Maximum Marks : 75*

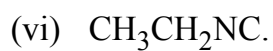
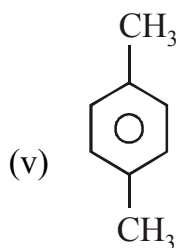
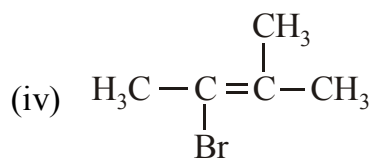
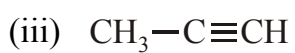
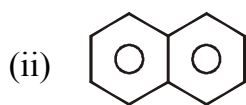
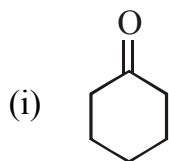
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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Four* questions in all. All questions carry equal marks.

1. Write notes on the following :
- (i) Wagner-Meerwin rearrangement
  - (ii) Cope rearrangement
  - (iii) Hyperconjugation.
2. Write IUPAC nomenclature of the following :



3. Write briefly about the following :
- (i) Crown ethers
  - (ii) Ring-chain tautomerism
  - (iii) Hydrogen bonding.
4. Write notes on the following :
- (i) Atropisomerism
  - (ii) Separation of Enantiomers
  - (iii) Projections of Molecules.
5. Write briefly about the following :
- (i) Wolf-Kishner reduction
  - (ii) Claisen condensation
  - (iii) Acid catalysed hydrolysis of esters.
6. (a) Give an account of reformatsky reaction.
- (b) Give reactions of addition of ammonia and ammonia derivatives to aldehydes and ketones.

7. (a) Explain chain and step growth polymers with suitable examples.
- (b) Give an account of solid phase peptide bond synthesis.
8. Give organic applications of reducing agents given below :
- (i)  $\text{NaBH}_4$
  - (ii) Pt
  - (iii)  $\text{LiAlH}_4$
  - (iv)  $\text{H}_2$
  - (v) Tri-nbutyl tin hydride
  - (vi)  $\text{NH}_3$ .