



Printed Pages : 3

PH - 122(O)

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 5048

Roll No.

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### B. PHARM.

(SEM. II) EXAMINATION, 2006-07

PHARMACEUTICAL CHEMISTRY - II

(ORGANIC CHEMISTRY - I) (OLD)

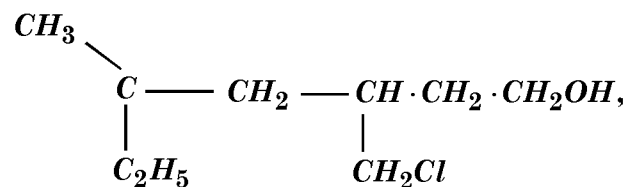
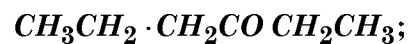
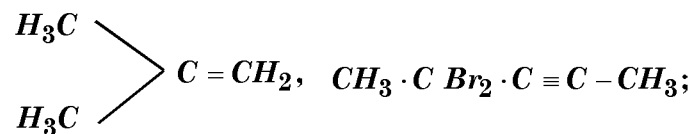
Time : 3 Hours]

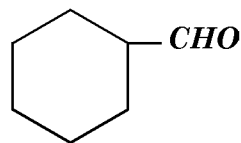
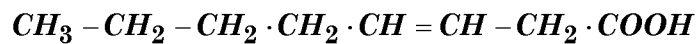
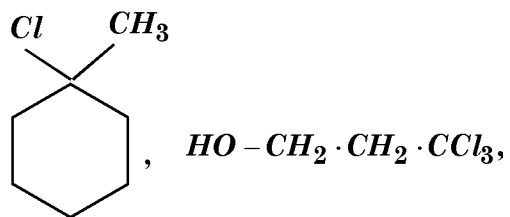
[Total Marks : 80

Note : Answer *all* the questions. All questions carry *equal* marks.

1 Answer any **four** of the following :

- (a) Hydrogen bonding
- (b) Resonance theory
- (c) Hybridization
- (d) IUPAC name of





structure of 4-Amino - 2, 6-dinitro toluene  
 cyclo hexane carbamide, Ethyl cyclohexane  
 carboxylate, 3-Methy / hept - zyne.

**2** Write on any **two** of the following :

- Structural isomerism
- R & S configuration
- Optical isomerism.

**3** Answer any **two** of the following : **8+8=16**

- Discuss the free radical addition reactions of butane with mechanism.
- Write any four chemical reactions of alkyl halides with mechanism.
- Write an account of
  - Preparation of conjugated dienes
  - Differentiate primary, secondary and tertiary alcohols.

- 4** Answer any **two** of the following :
- (a) o, p and meta orienting groups
  - (b) Reactions of arenes
  - (c) Reactions of phenols.
- 5** Give a brief account on any **four** of the following : **4×4=16**
- (a) Aldol condensation
  - (b) Mechanism of Schiff reaction
  - (c) Reactions of acylhalides
  - (d) Synthetic applications of organolithium compounds
  - (e) Difference between Maleic and fumaric acid
  - (f) Wolf – Kishner reduction.
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