



Printed Pages : 2

PHAR – 122

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

PAPER ID : 5068

Roll No.

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B. PHARM.

(SEM. II) EXAMINATION, 2006-07

PHARMACEUTICAL CHEMISTRY - II

(ORGANIC CHEMISTRY - I)

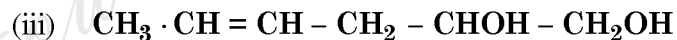
Time : 3 Hours]

[Total Marks : 80

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

1 Answer any **four** of the following : **4×4=16**

(a) Give the **IUPAC** name of :



(b) Give the chemical structure of

(i) Cyclohexane **1,3**-dicarboxylic acid;

(ii) **2, 3, 5** - Trimethyl cyclohexane carbaldehyde;

(iii) But-**2**-yne;

(iv) **1,3**-cyclohexdiene;

(c) Write about sigma and pi bond

(d) Molecular orbital

(e) Azimuthal and magnetic quantum numbers

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[Contd...

- 2 Write in short on any **two** of the following : **8×2=16**
- Structural isomerism
 - Enantiomerism
 - R** and **S** configuration
- 3 Answer any **two** of the following : **8×2=16**
- SN¹** and **SN²** reactions
 - Methods of preparation and reactions of alcohols;
 - Reactions of Ethyne
- 4 Write any **two** of the following : **8×2=16**
- Reactions of the aryl halides
 - OH** is ortho and para directing and **-NO₂** is meta directing
 - Preparation of
 - Salicylic acid from phenol
 - Phenol from aniline
 - Picric acid from phenol
 - Phthalic acid from o-xylene.
- 5 Answer any **four** of the following : **4×4=16**
- Reaction of **CH₃MgBr** with **CO₂**, **O₂**, Water and **CH₃COOCH₃**;
 - Benzoin condensation
 - Reaction of **CH₃CHO** with **HCN**, **NaHSO₃**, **NH₂OH.HCl** and **NH₂NH₂.HCl**;
 - Organolithium compounds;
 - Preparation of β hydroxy acids;
 - Silver mirror test.