

April-2013

Seat
No.

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कक्ष - 047

CHEMISTRY PAPER - II (NEW) : CH-112
Organic & Inorganic Chemistry

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to right indicate full marks.

1. Attempt **any eight** of the following.

8

- i) Acetylene is an example of -----
 a) sp^3 hybrid molecule b) sp^2 hybrid molecule
 c) sp hybrid molecule d) sp^3d^2 hybrid molecule.
- ii) $K_2Cr_2O_7$ is strong -----
 a) Reducing agent b) Oxidising agent
 c) Dehydrating agent d) None of these.
- iii) In which one of the following atom is negatively charged -----
 a) Carbanion b) Carbonium ion
 c) Carbocation d) Free radical.
- iv) Ether when exposed to air and light forms -----
 a) Oxide b) Peroxide
 c) Alcohol d) Alkanes.
- v) Which one of the following is not an alcohol ?
 a) CH_3-OH b) CH_3-CH_2-OH
 c) $C_6H_5-CH_2-OH$ d) $CH_3-\overset{\overset{O}{\parallel}}{C}-OH$.
- vi) The chief constituent of vinegar is -----
 a) Formic acid b) Acetic acid
 c) Oxalic acid d) Citric acid.

iii) Write **any four** functional group of the following

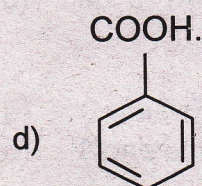
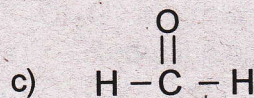
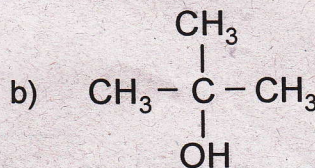
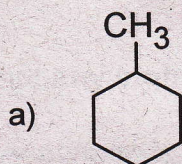
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|--------------------|-------------|
| a) Carboxylic acid | b) Aldehyde |
| c) Ether | d) Ester |
| e) Alkynes. | |

4. Attempt **any two** of the following.

6

A) Define the term acid and base according to Arrhenius .

- Concept with suitable example.
- Give the properties of Solvent.
- Give the IUPAC name of the following any three.



B) Define the term pyrolysis.

2

5. Answer **any one** of the following.

8

- Explain sp^3 hybridization, with the formation of ethane molecule.
- Define term buffer, and types of buffer, Give the mechanism of acidic and basic buffer.
