

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain Substitution and Elimination reactions in detail with examples. (CO4)

Q.24 What do you mean by Paint defects. Explain types of paint defects in detail. (CO5)

Q.25 Write the IUPAC name of the following: (CO2)

- i) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-OH}$
- ii) $\text{CH}_3\text{-O-CH}_3$
- iii) $\text{CH}_3\text{-CH}_2\text{-COOH}$
- iv) $\text{CH}_3\text{-CH=CH}_2$

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Roll No.

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2nd Sem / Chemical , Chem P & P Subject : Organic Chemistry

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following hydrocarbon is saturated? (CO1)

- a) C_2H_6
- b) C_2H_4
- c) C_3H_4
- d) C_3H_6

Q.2 Which of the following compounds contain aldehyde group? (CO2)

- a) $\text{CH}_3\text{-Br}$
- b) $\text{CH}_3\text{-CHO}$
- c) $\text{CH}_3\text{-CH}_2\text{-OH}$
- d) $\text{CH}_3\text{-COOH}$

Q.3 General Formula for alkyne is _____. (CO3)

- a) $\text{C}_n\text{H}_{2n+2}$
- b) C_nH_{2n}
- c) $\text{C}_n\text{H}_{2n-2}$
- d) C_3H_{3n}

Q.4 In the following reactions, which one is an example of substitution reaction? (CO4)

- a) $\text{CH}_4 + \text{Cl}_2 \xrightarrow{\text{Sunlight}} \text{CH}_3\text{-Cl} + \text{HCl}$
- b) $\text{CH}_3\text{CH}_2\text{Br} + \text{OH}^- \longrightarrow \text{CH}_2=\text{CH}_2 + \text{H}_2\text{O} + \text{Br}^-$
- c) $\text{CH}_2=\text{CH}_2 + \text{H}_2 \xrightarrow{\text{Ni}} \text{CH}_3\text{-CH}_3$
- d) None of the above

Q.5 Which of the following compounds can have a double bond? (CO3)

- a) C_2H_6
- b) C_3H_6
- c) C_3H_4
- d) C_4H_{10}

Q.6 _____ are cheaper varieties of paint. (CO5)

- a) Colour wash
- b) Pointing
- c) Distempers
- d) Acrylics

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define unsaturated compounds. (CO1)

Q.8 Give an example of alcohol. (CO2)

Q.9 Give an example of alkane. (CO3)

Q.10 Write the IUPAC name for $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-OH}$ (CO2)

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Q.11 Write an example of addition reaction. (CO4)

Q.12 In paints, the pigments is responsible for _____. (CO5)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write four differences between organic compound and inorganic compound. (CO1)

Q.14 Explain alicyclic compounds and aromatic compounds. (CO1)

Q.15 Write any four physical properties of alkane. (CO3)

Q.16 Write characteristics of good print. (CO3)

Q.17 How can alkane be prepared from dehydration of alcohol? (CO3)

Q.18 Define sublimation and crystallization. (CO4)

Q.19 Define pigment and its significance. (CO5)

Q.20 Write the chemical property of alkane halogenation. (CO3)

Q.21 Write uses of alkane. (CO1)

Q.22 Write definition of organic chemistry. (CO3)

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