

2nd Sem / DMLT

Subject:- Organic chemistry

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Amines are _____ in nature.

- a) basic b) acidic
c) neutral d) amphoteric

Q.2 Peptides bonds are present in _____.

- a) Protein b) carbohydrate
c) lipid d) triglycerides

Q.3 Marsh gas is .

- a) CO_2 b) Cl_2
c) H_2O d) CH_4

Q.4 Sucrose on hydrolysis give _____.

- glucose and galactose
- glucose and fructose
- glucose and insulin
- glucose and glucose

Q.5 Silk is an example of _____.

- a) carbohydrate b) Wax
c) Protein d) fatty acids

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 a) Write down the importance of organic compounds.

b) Give two methods of preparation of acetylene .
Its properties and its uses.

Q.37 a) Discuss the structure of proteins

b) Write notes on importance of carbohydrates.

Q.38 Give the IUPAC name of

- $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_3$
- $\text{CH}_3\text{-CO-CH}_2\text{-CH}_3$
- $\text{CH}_3\text{-CH}_2\text{O-CH}_2\text{-CH}_3$
- $\text{CH}_3\text{-CH}_2\text{-CHCl-CH}_3$
- $\text{CH}_3\text{Cl-CH}_3\text{-COOH}$

- Q.6 The functional group present in aldehydes is _____.
 a) CHO b) OH
 c) COOH d) ROR
- Q.7 $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-COOH}$, the functional group present in this is _____.
 a) Alcohol b) Aldehyde
 c) Ketone d) Ether
- Q.8 Only small amounts of enzymes can be highly efficient.
 a) True b) False
- Q.9 Starch is an example of _____.
 a) Carbohydrate b) Protein
 c) Lipid d) mineral
- Q.10 Which one is not the factor affecting enzyme activity.
 a) pH
 b) temperature
 c) concentration
 d) gravity

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is co-factor in an enzyme?
- Q.12 What are ketoses.
- Q.13 The general formula of alkynes is _____.
- Q.14 In homologous series members differ by _____.

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- Q.15 Give two properties of glycerol.
- Q.16 Power alcohol is a mixture of _____ and _____.
- Q.17 Name two basic amino acids.
- Q.18 Name one unsaturated hydrocarbon.
- Q.19 What is combustion?
- Q.20 Define triglycerides

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Give the preparation of ethane and propane using wurtz reaction.
- Q.22 What is schiff's reagent
- Q.23 How do glucose and fructose differ structurally.
- Q.24 Differentiate between simple proteins and conjugated proteins
- Q.25 Write down the uses of ethene.
- Q.26 Give four properties of hydrogen.
- Q.27 Explain saytzeff's rule with an example
- Q.28 Give two methods of preparation of diethyl ether.
- Q.29 Write a brief note on cholesterol.
- Q.30 Give the main properties of alkynes.
- Q.31 Differentiate b/w organic and inorganic compounds.
- Q.32 What is denaturation of alcohol.
- Q.33 Give the importance of enzymes.
- Q.34 What are essential and non-essential amino acids.
- Q.35 Write down the uses and properties of ethanal.

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