

CARBONS AND ITS COMPOUNDS

- Q.1)** Which of the following is an allotropic form of carbon ?
(A) Diamond (B) Graphite
(C) Fullerene (D) All of these
- Q.2)** In a double covalent bond number of electron pairs shared are -
(A) 2 (B) 3
(C) 4 (D) 6
- Q.3)** Carbon dioxide molecule contains -
(A) single covalent bond
(B) double covalent bond
(C) triple covalent bond
(D) ionic bond
- Q.4)** Which of the following allotrope of carbon is used in making crucibles ?
(A) Diamond (B) Graphite
(C) Fullerene (D) Coke
- Q.5)** The general formula for saturated hydrocarbon is -
(A) C_nH_{2n+2} (B) C_nH_{2n}
(C) C_nH_{2n-2} (D) C_nH_{2n-n}
- Q.6)** The first compound to be prepared in the laboratory was -
(A) methane (B) ethyl alcohol
(C) acetic acid (D) urea
- Q.7)** The number of C - H bonds in ethane (C_2H_6) molecule is -
(A) four (B) six
(C) eight (D) ten
- Q.8)** The main reason for this huge number of organic compounds are -
(A) catenation
(B) tetravalency of carbon
(C) tendency to form multiple bonds
(D) all of these
- Q.9)** Which of the following does not belong to alkane ?
(A) C_2H_4 (B) CH_4
(C) C_2H_6 (D) C_4H_{10}
- Q.10)** The functional group, present in $CH_3COOC_2H_5$ is-
(A) ketonic (B) aldehydic
(C) ester (D) carboxylic
- Q.11)** The IUPAC name of the compound having the formula $(CH_3)_3CCH=CH_2$ is -
(A) 3,3,-trimethyl -1-propane
(B) 1,1,1- trimethyl-1-butene
(C) 3,3-dimethyl-1-butene
(D) 1,1-dimethyl-1,3-butene
- Q.12)** IUPAC name of second member of homologous series of carboxylic acids is -
(A) methanoic acid
(B) ethanoic acid
(C) propanoic acid
(D) butanoic acid
- Q.13)** Sometimes during cooking the bottom of the vessel becomes black from outside. This means that -
(A) food is not cooked properly.
(B) fuel is not burning completely.
(C) fuel is burning completely.
(D) fuel is dry.
- Q.14)** Rectified spirit is -
(A) 50% ethanol (B) 80% ethanol
(C) 95% ethanol (D) 100 % ethanol
- Q.15)** Which of following gives ethane when heated with cons. sulphuric acid ?
(A) CH_3CHO (B) CH_3COOH
(C) CH_3OH (D) CH_3CH_2OH
- Q.16)** Power alcohol contains -
(A) 50% petrol and 50% ethanol
(B) 80% petrol and 20% ethanol
(C) 25% petrol and 75% ethanol
(D) 70% petrol and 30% ethanol
- Q.17)** Vinegar is -
(A) 5% aqueous solution of acetic acid
(B) 20% alcoholic solution of acetic acid
(C) 100% acetic acid

(D) none of these

Q.18) A by product of soap industry is -

- (A) sodium hydroxide
- (B) sodium palmitate
- (C) glycerol
- (D) Both B & C

Q.19) Cleansing action of soaps includes :

- (A) formation of micelles.
- (B) emulsification of oil or grease.
- (C) lowering of surface tension of water.
- (D) all of the above.

Q.20) Butanone is a four-carbon compound with the functional group (NCERT)

- (a) Carboxylic acid (b) aldehyde
- (c) ketone (d) alcohol

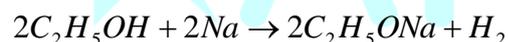
Q.21) Which of the following is not a saturated hydrocarbon?

- (A) Cyclohexane (B) Benzene
- (C) Butane (D) Isobutane

Q.22) The functional group in methanol and methanal respectively are :

- (A) $-OH, -CHO$
- (B) $-CHO, -OH$
- (C) $-OH, -COOH$
- (D) $-CHO, -COOH$

Q.23) The reaction



suggests that ethanol is

- (A) Acidic in nature
- (B) Basic in nature
- (C) Amphoteric
- (D) Neutral

Q.24) Detergents are sodium or potassium salts of

long chain

- (A) aldehydes
- (B) ketones
- (C) carboxylic acids
- (D) sulphonic acids

Q.25) Which of the following has the weakest carbon-carbon bond strength?

- (A) C_2H_2
- (B) C_2H_4
- (C) C_2H_6
- (D) All have the same bond length

Q.26) Which of the following will not decolourise bromine water?

- (A) C_4H_8 (B) C_3H_4
- (C) C_3H_8 (D) C_4H_6

Q.27) Open-chain saturated hydrocarbons are called

- (A) Paraffins (B) Alkenes
- (C) Alkynes (D) Alkyl groups

Q.28) The major constituent of biogas is

- (A) Propane (B) Acetylen
- (C) Methane (D) Benzene

Q.29) Ethanol on oxidation gives

- (A) Ethane (B) Formalin
- (C) Ethanoic acid (D) Methane

Q.30) Which of the following will undergo addition reactions?

- (A) C_2H_4 (B) C_2H_6
- (C) CH_4 (D) C_3H_8

Answer Sheet

Q.1	D	Q.11	C	Q.21	B
Q.2	A	Q.12	B	Q.22	A
Q.3	B	Q.13	B	Q.23	A
Q.4	B	Q.14	C	Q.24	D
Q.5	A	Q.15	D	Q.25	C
Q.6	D	Q.16	B	Q.26	C
Q.7		Q.17	A	Q.27	A
Q.8	D	Q.18	C	Q.28	C
Q.9	A	Q.19	D	Q.29	C
Q.10	C	Q.20	C	Q.30	A