

Question 1 (20 x 0.5 = 10 points): Choose and circle the correct answer

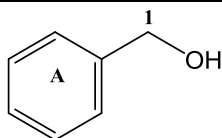
1	The number of valence electrons in N-atom (Atomic number 7) is: A) 5 B) 3 C) 2 D) 4
2	The hybridization state of C-atoms in ethene is: A) SP^2 B) SP^3 C) SP D) SP^4
3	All organic compounds are: A) Covalent B) Ionic C) Acids D) Bases
4	In all organic compounds, Hydrogen is: A) Monovalent B) Divalent C) Trivalent D) Tetravalent
5	Ethanol is a alcohol. A) Primary B) Secondary C) Tertiary D) Quaternary
6	One of the following compounds is a Ketone: A) Propene B) Propanol C) Propanal D) Propanone
7	One of the following compounds is a Secondary amine: A) Ethyl amine B) Trimethyl amine C) Dimethyl amine D) Methyl amine
8	Which of the following compounds is a Haloalkane ? A) Butanol B) Butyl iodide C) Methyl ethanoate D) Propanone
9	The structure of the Propyl group is: A) CH_3-CH_2- B) CH_3- C) $CH_2=CH-$ D) $CH_3-CH_2-CH_2-$
10	The electronic configuration of O-atom (Atomic No. = 8) is: A) $1s^2, 2s^3, 2p^3$ B) $1s^2, 2s^2, 2p^4$ C) $1s^2, 2s^4, 2p^2$ D) $1s^3, 2s^3, 2p^2$
11	The general structure of any alkyl halide is: A) R-COOH B) R-X C) R-OH D) R-O-R
12	The general molecular formula of any Alkyne is: A) C_nH_n B) C_nH_{2n} C) C_nH_{2n+2} D) C_nH_{2n-2}
13	The molecule of Heptane contains ----- Carbon atoms A) 7 B) 8 C) 9 D) 10
14	Hexane is immiscible with water because it is -----. A) Hydrophobic B) Hydrophilic C) Polar D) Ionic
15	Methanol and water are completely miscible Due to -----. A) H-bond B) London force C) Dipole-dipole force D) Ionic bonds
16	The IUPAC name of $CH_2=CH-CH_3$ is -----. A) Propanol B) Propene C) Propyne D) Propanal
17	The essential element in all organic compounds is A) Oxygen B) phosphorus C) Carbon D) Hydrogen
18	The functional group in all alkenes is A) $-C-C-$ B) $-C=C-$ C) $-C=C-$ D) $-OH$
19	One of the following compounds is ionic compound. A) CH_3-OH B) CH_3-O-CH_3 C) CH_3-COOH D) Positrons
20	All hydrocarbons are A) Hydrophobic B) Hydrophilic C) Polar D) Ionic bonds

Question 2 (12 x 0.5 = 6 points): Choose the correct Term

A) Fluorine B) Isobutane and Butane C) Alcohols D) -COOH E) Ionic bond F) Propyne
G) R-X H) Ethylene I) Methane. J) Noble gases K) Covalent bond L) Helium

.....	Organic compounds that have at least -OH.
.....	Is the highest electronegative element in the periodic Table.
.....	Is the functional group of carboxylic acids.
.....	Contains two π -bonds.
.....	Electrostatic attraction between two oppositely charged ions.
.....	Are two isomers.
.....	Has the IUPAC name: Ethene.
.....	Is a tetrahedral geometrical structure with an angle of 109.5° .
.....	Is the first noble gas in the last group of periodic Table.
.....	The general structure of haloalkanes
.....	Are present in the last group (VIII) of periodic table.
.....	Sharing of two electrons between two atoms of similar electronegativity

Question 3 (8 x 0.5 = 4 Points): Use a suitable sign (\checkmark) or (\times) for each statement



	This compound is aromatic.
	The total number of π -bonds = 2.
	Ring (A) is called phenyl ring ($C_6H_5^-$).
	Hybridization of C-1 is SP^2 .
	It is a phenol.
	There are 11 σ -bonds.
	C-1 is a primary carbon atom.
	There are 8 H-atoms in this compound.

Good Luck