ICSE Living Science CHEMISTRY



Class 10

Multiple-Choice Questions

CHAPTER 12: ORGANIC CHEMISTRY-I

1. O	rganic compounds, whether natural or synthetic, cont	ain	and as the main elements.			
(a)	carbon, hydrogen	(b)	carbon, nitrogen			
(c)	carbon, oxygen	(d)	carbon, sulphur			
	Ans: a					
2. O	2. Organic compounds are in water but in organic solvents.					
(a)	soluble, dissolve	(b)	soluble, do not dissolve			
(c)	insoluble, dissolve	(d)	insoluble, do not dissolve			
	Ans: c					
3. O	rganic compounds have bonding.					
(a)	electrovalent	(b)	coordinate			
(c)	molecular	(d)	covalent			
	Ans: d					
4. Ca	4. Carbon has valence electrons and it forms covalent bonds.					
(a)	five, four	(b)	four, four			
(c)	four, five	(d)	five, five			
	Ans: b					
5. Carbon has the unique ability to form bonds with other atoms of carbon, thereby, forming a large number of molecules. This property is called						
(a)	catenation.	(b)	covalency.			
(c)	electrovalency.	(d)	carbonation.			
	Ans: a					
6. Organic compounds having the molecular formula but/and structural formulae are called isomers.						
(a)) different, same	(b)	same, different			
(c)	same, same	(d)	different, different			
	Ans: b					
7. Saturated hydrocarbons contain only covalent bonds between carbon atoms.						
(a)	single	(b)	double			
(c)	triple	(d)	quadruple			
	Ans: a					

8.	8. Saturated cyclic compounds containing single covalent bonds are called						
	(a) aliphatic compounds.	(b)	acyclic compounds.				
	(c) carbocyclic compounds.	(d)	cycloalkanes.				
	Ans: d						
9.	$C_n H_{2n+2}$ is the general formula for						
	(a) alkenes.	(b)	alkynes.				
	(c) alkanes.	(d)	ketones.				
	Ans: c						
10.	Common name for ethanal is						
	(a) formaldehyde.	(b)	propionaldehyde.				
	(c) butyraldehyde.	(d)	acetaldehyde.				
	Ans: d						
11. A homologous series is a series of organic compounds, each containing a characteristic group.							
	(a) structural	(b)	functional				
	(c) chemical	(d)	organic				
	Ans: b						
12.	Every member of a homologous series differs from its	suc	cessive member by a group.				
	(a) CH ₂	(b)	CH ₃				
	(c) CH ₄	(d)	CH ₅				
	Ans: a						
13.	Compounds that have the same formula	but	different formula are called isomers.				
	(a) structural, molecular	(b)	chemical, molecular				
	(c) structural, chemical	(d)	molecular, structural				
	Ans: d						
14. Which of the following is not structural isomerism?							
	(a) Chain isomerism	(b)	Positional isomerism				
	(c) Stereoisomerism	(d)	Functional isomerism				
	Ans: c						
15.	The molecular formula of iso-butane is						
	(a) C ₄ H ₁₀	(b)	C ₂ H ₁₀				
	(c) C ₄ H ₁₂	(d)	C ₃ H ₁₀				
	Ans: a						
16. The molecular formula of ethyl chloride or chloroethane is							
	(a) C ₄ H ₅ Cl	(b)	C ₂ H ₅ Cl				
	(c) C ₂ H ₆ Cl	(d)	C ₃ H ₅ Cl				
	Ans: b						
	U 						
17.	CH ₃ - C - H						
	This is the structural formula of						
	(a) methanal.	(b)	methanoic acid.				
	(c) ethanoic acid.	(d)	acetaldehyde.				
	Ans: d						

18. (i) $CH_3 - CH_2 - CH_2 - OH$ (ii) CH₃ - CH - CH₃ OH These are the examples of (a) chain isomers. (b) functional isomers. (c) positional isomers. (d) tautomers. Ans: c 19. Ethyl alcohol and dimethyl ether are examples of (a) chain isomers. (b) functional isomers. (c) positional isomers. (d) tautomers. Ans: b 20. Tautomers are compounds that have the same but contain different that are in equilibrium. (a) functional group, molecular formula (b) structural group, molecular formula (c) molecular formula, functional group (d) structural formula, molecular formula Ans: c

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