G	Techior Solutions odavari Complex, Hingn Contact No: 976 Email Id:techior.solutio	a T-Point, Nagpur 6616435	
Time: 2 Hour			Total Marks: 50
Class : X			
Subject : Science and Tec	hnology - I		
MCQ SINGLE CORRECT			
1. $\begin{array}{c} \mathbf{O} \\ \parallel \\ -\mathbf{C} - \mathbf{OH} \end{array}$ is called			
(a) Carboxylic acid gro	up (b) aldehyde group	(c) ketonic group	(d) alcohol group
2 is a metal whi	ch is in liquid form at ordina	ary temperature and	pressure.
(a) Magnesium	(b) Sodium	(c) Scandium	(d) Mercury
	he chloride of an element > hich of the following elemer		
(a) Na	(b) Mg	(c) Al	(d) Si
4. Acetic acid			
(a) turns red litmus blue	(b) has pungent odour	(c) is red in colour	(d) is odourless
5. The latent heat of fusion	on of ice is	innc	$D_1 + 1 +$
(a) 540 cal/g	(b) 80 cal/g	(c) 800 cal/g	(d) 4 cal/g
TRUE/FALSE			
6. Aquaregia is a mixture	of conc. HCI and conc. H	NO3 in the ratio of 1	: 3.
(a) True	(b) False		
7. Electromagnetism was	discovered by Oersted.		
(a) True	(b) False		
FILL IN THE BLANKS			
8. Electric Power = $\frac{V^2}{}$			
VERY SHORT DESC			
	e interval in which AC chan	ges direction?	
10. Give two examples of a	-		
SHORT DESC - 25 WORDS	5		
		All The Best!!	!

(Attempt any 5)

- 11. General formula of the homologous series of alkanes is $C_n H_{2n+2}$. Write down the molecular formula of the 8th and 12th member using this.
- 12. Define : Esterification
- 13. Give scientific reason: Metals are good conductors, while non-metals are poor conductors of electricity.
- 14. The gravitational force due to the earth also acts on the moon because of which it revolves around the earth. Similar situation exists for the artificial satellites orbiting the earth. The moon and the artificial satellites orbit the earth. The earth attracts them towards itself but unlike the falling apple, they do not fall on the earth, why?
- 15. Give two examples of double displacement reaction.

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Structural formulae of some monomers are given below. Write the structural formula of the 16. homopolymer formed from them,

1.
$$CH_2 = C$$

 CH_3
 CH_3

ĊH,

17. Compare the gravitational force on a body of mass 1 kg due to the earth with the force on the same body due to another body of mass 1kg at a distance of 1 m from the first body. (Mass of the earth = 6×10^{24} kg, radius of the earth = 6400 km)

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- 18. What is meant by modern periodic table ?
- Obtain the relation between the refractive index of the second medium with respect to the first 19. medium and the refractive index of the first medium with respect to the second medium.
- 20. Give scientific reasons : A convex lens is known as a converging lens.
- 21. Which type of telescopes are orbiting around the earth? Why is it necessary to put them in space?
- 22. Write short notes on the following : Tinning.

LONG DESC - 100 WORDS

(Attempt any 1)

- 23. Have you seen a photographic camera in which a film is used? Compare the human eye with it. State similarities between them. State the points of difference between them.
- 24. Write the balanced equations for the following reactions : $CH_4 + O_2 \rightarrow CO_2 + H_2O$

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