## Carbon and its Compounds - Class X - Paper Set 2

1.	. What is the term for compounds with the same molecular formula but dif structures?		
	a) Isotopes	b) Isomers	
	c) Ions	d) Radicals	
2. What is the main constituent of natural gas?			
	a) Methane	b) Ethane	
	c) Propane	d) Butane	
3.	3. Which element exhibits the property of catenation to the greatest extent?		
	a) Silicon	b) Carbon	
	c) Nitrogen	d) Phosphorus	
4.	4. Which type of hydrocarbon contains only single bonds between carbon atom		
	a) Alkenes	b) Alkynes	
	c) Alkanes	d) Arenes	
5.	What is the molecular formula of ethene?		
	a) C <sub>2</sub> H <sub>2</sub>	b) C <sub>2</sub> H <sub>4</sub>	
	c) C <sub>3</sub> H <sub>6</sub>	d) C <sub>2</sub> H <sub>6</sub>	
6. Which functional group is present in aldehydes?		ent in aldehydes?	
	a) –COOH	b) –OH	
	c) –CHO	d) –CO	
7.	In the presence of which catalyst are vegetable oils hydrogenated?		
	a) Copper	b) Iron	
	c) Nickel	d) Platinum	

8.	Which carbon compound is a major component of biogas?		
	a) Methane	b) Ethanol	
	c) Ethanoic acid	d) Propane	
9.	9. What is the main product formed when ethanol is oxidized with alkaline potassi permanganate?		
	a) Methane	b) Ethanoic acid	
	c) Carbon dioxide	d) Water	
10. The unique ability of carbon to form chains is called:			
	a) Catalysis	b) Catenation	
	c) Hydration	d) Sublimation	

## **Answers:**

- 1. b) Isomers
- 2. a) Methane
- 3. b) Carbon
- 4. c) Alkanes
- 5. b) C<sub>2</sub>H<sub>4</sub>
- 6. c) –CHO
- 7. c) Nickel
- 8. a) Methane
- 9. b) Ethanoic acid
- 10. b) Catenation