1. C ₃ H ₈ belongs to the homologous series of (a) Alkynes	(b) Alkenes
(c) Alkanes	(d) Cyclo alkanes
2. The number of isomers of pentane is (a) 2	(b) 3
(c) 4	(d) 5
3. Which of the following will undergo addition reactions?	
(a) CH ₄ (C) C ₂ H ₆	(b) C_3H_8 (d) C_2H_4
4. Ethanol on complete oxidation gives	(1) 00
(a) acetic acid/ethanoic acid(c) ethanol	(b) CO₂ and water(d) acetone/ethanone
5. Name the functional group present in CH ₃ COCH ₃ .	400 L
(a) Alcohol (c) Ketone	(b) Carboxylic acid(d) Aldehyde
6. Which of the following belongs to homologous se $C_6H_6,C_2H_6,C_2H_4,C_3H_4.$	-
(a) C_6H_6 (C) C_2H_6	(b) C ₂ H ₄ (d) C ₃ H ₄
7. A soap molecule has a	
(a) hydrophobic head and hydrophobic tail(c) hydrophilic head and hydrophilic tail	(b) hydrophobic head and hydrophilic tail(d) hydrophilic head and hydrophobic tail
8. While cooking, if the bottom of the vessel means that:	is getting blackened on the outside, it
a) The food is not cooked completely	b) The fuel is not burning completely
c) The fuel is wet	d) The fuel is burning completely
9. The property of self-linkage among identical atoms to form long chain compounds is known as:	
a) Catenation c) Substitution	b) Isomerisationd) Halogenations
10. Which of the following is the molecular formula of cyclobutane?	
a) C ₄ H ₁₀ c) C ₄ H ₈	b) C ₄ H ₆ d) C ₄ H ₄
11. Covalent compoundsA. Have high melting and boiling pointB. Are mostly soluble in waterC. Are formed between atoms of metals and non-metalD. Are formed by the sharing of electrons in the bondi	
12. The name of the compound, CH₃ − CH₂ − CHO A. Propanal C. Ethanol	is: B. Propanone D. Ethanal

13. Detergents can be used for washing of clothes

(a) only in hard water(b) only in soft water(c) both in soft and hard water(d) None of the above

14. Pentane has the molecular formula C₅H₁₂. It has

(a) 5 covalent bonds (b) 12 covalent bonds (c) 16 covalent bonds (d) 17 covalent bonds

15. The first member of the alkynes homologous series is

(a) propyne (b) ethyne (c) methane (d) ethane

16. Which of the following undergoes substitution reaction?

(a) Methane (b) ethene

(C) Propene (d) ethyne