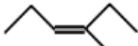
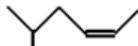
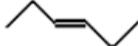
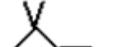


Class: X
Subject: Chemistry
Topic: Carbon and its compounds
No. of Questions: 20

1. What are the two properties of carbon which lead to the huge number of carbon compounds we see around us?
2. How many structural isomers can you draw for pentane ?
3. Why do ionic compounds have high melting points?
4. An alcohol and an ether have same molecular formula C_2H_6O . Draw their structural formula, indicating their functional groups.
5. Would you be able to check if water is hard by using a detergent?
6. What are homologous series? Write a short note.
7. The bond between two identical non metallic atoms has a pair of electron?
 - A. Unequally shared between two atoms.
 - B. Transferred completely from one atom to another.
 - C. With identical spins
 - D. Equally shared between them.
8. Explain the formation of scum when hard water is treated with soap.
9. An organic compound A with formula C_2H_6O gives the compound B with same number of carbon atoms when oxidized, which further undergoes oxidation to acetic acid, identify the compound A.
10. Which of the following salt when dissolved in water produces hard water.
 - A. Calcium sulphate
 - B. Magnesium bicarbonate
 - C. Calcium chloride
 - D. Any of the above

11. Why graphite has high melting point?
12. How do you convert:
 - 1) Ethane to ethanoic acid
 - 2) Ethanol to ethene.Give conditions and equations relevant to these conversions.
13. Which of the following has the weakest carbon-carbon strength?
 - A. C_2H_2
 - B. C_2H_4
 - C. C_2H_6
 - D. All have the same bond strength
14. What is denatured alcohol ?
15. What happens when a mixture of ethyl alcohol, acetic acid and concentrated H_2SO_4 is heated?
16. Detergents are sodium or potassium salts of long chain of:-
 - A. Aldehydes
 - B. Ketones
 - C. Carboxylic acid
 - D. Sulphonic acid
17. How is combustion different from pyrolysis?
18. Write a short note on substitution reactions?
19. Which of the following substance is added to denature ethonol?
 - A. Methanol
 - B. Pyridine
 - C. Copper sulphate
 - D. All of them

20. Which is 5-methylhex -2- ene?

- A. 
- B. 
- C. 
- D. 

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