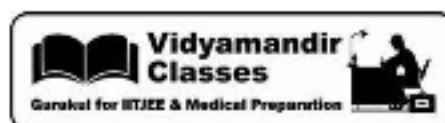




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Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 45 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced Archive	Exact Duration : _____

16. Following statements are true, under some specific conditions. Write the condition for each subquestion in not more than two sentences: (1984)

- (i) 2-methyl propene can be converted into isobutyl bromide by hydrogen bromide.  
 (ii) Ethyne and its derivatives will give white precipitate with ammonical silver nitrate solution.

17. Acidic hydrogen is present in : (1985)

(A) ethyne (B) ethene (C) benzene (D) ethane

18. The terminal carbon atom in 2-butene is ..... hybridised. (1985)

19. How would you convert acetylene to acetone ? (1985)

20. Give the chemical test to distinguish between 2-butyne and 1-butyne. (1985)

21. The highest boiling point is expected for : (1986)

(A) iso-butane (B) n-octane  
 (C) 2, 2, 3, 3-tetramethyl butane (D) n-butane

22. A white precipitate was formed slowly when silver nitrate was added to compound A with molecular formula  $C_6H_{13}Cl$ . Compound A on treatment with hot alcoholic potassium hydroxide gave a mixture of two isomeric alkenes B and C, having formula  $C_6H_{12}$ . The mixture of B and C, on ozonolysis, furnished four compounds (1986)

- (i)  $CH_3CHO$  (ii)  $C_2H_5CHO$  (iii)  $CH_3COCH_3$  (iv)  $CH_3 - \underset{\substack{| \\ CH_3}}{CH} - CHO$

What are the structures of A, B and C ? (1986)

\*23. Only two isomeric monochloro derivatives are possible for : (1986)

(A) n-butane (B) 2, 4-dimethyl pentane  
 (C) benzene (D) 2-methyl propane

24. The number of structural and configurational isomers of a bromo compound,  $C_5H_9Br$ , formed by the addition of HBr to 2-pentyne respectively, are : (1988)

(A) 1 and 2 (B) 2 and 4 (C) 4 and 2 (D) 2 and 1

25. The C-H bond distance is the longest in : (1989)

(A)  $C_2H_2$  (B)  $C_2H_4$  (C)  $C_2H_6$  (D)  $C_2H_2Br_2$

26. The compound which has one isopropyl group, is : (1989)

(A) 2, 2, 3, 3-tetramethyl pentane (B) 2, 2-dimethyl pentane  
 (C) 2, 2, 3-trimethyl pentane (D) 2-methyl pentane

27. Write the balanced chemical equation for the following 'Ethylene glycol is obtained by the reaction of ethylene with potassium permanganate'. (1991)