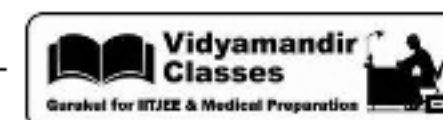




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of 2



Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

16. Ozonolysis of an organic compounds gives formaldehyde as one of the products. This confirms the presence of :

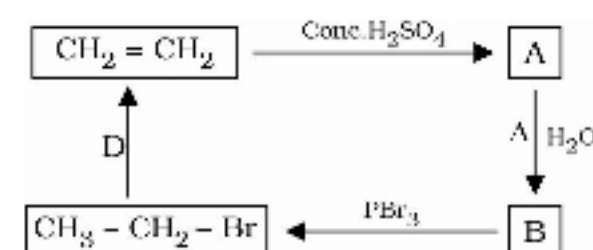
(A) two ethylenic double bonds (B) a vinyl group
(C) an *iso*-propyl group (D) an acetylenic triple bond

17. Ozonolysis of an organic compound A produces acetone and propionaldehyde in equimolar mixture. Identify A from the following compounds.

(A) 2-methyl-1-pentene (B) 1-pentene
(C) 2-pentene (D) 2-methyl-2-pentene

18. Identify A and D in the following sequence of reactions :

(A) Methanol and bromoethane
(B) Ethyl hydrogen sulphate and alcoholic KOH
(C) Ethyl hydrogen sulphate and aqueous KOH
(D) Ethanol and alcoholic KOH



19. One mole of a symmetrical alkene on ozonolysis gives two moles of an aldehyde having a molecular mass of 44 u. The alkene is :

I. exist as *cis-trans* isomer II. has one positional isomer
III. has one chain isomer IV. has two ring chain isomer

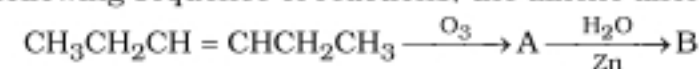
Choose correct.

(A) Only I (B) I & II (C) II & IV (D) I, II, III & IV

20. Which of the following is the predominant product in the reaction of HOBr with propene?

(A) 2-bromo-1-propanol (B) 3-bromo-1-propanol
(C) 2-bromo-2-propanol (D) 1-bromo-2-propanol

21. In the following sequence of reactions, the alkene affords the compound 'B'



The compound B is :

(A) $\text{CH}_3\text{CH}_2\text{CHO}$ (B) CH_3COCH_3 (C) $\text{CH}_3\text{CH}_2\text{COCH}_3$ (D) CH_3CHO

22. In the reactions, $\text{B} \xleftarrow{\text{Lindlar catalyst / H}_2} \text{RC} = \text{CR} \xrightarrow{\text{Na / NH}_3} \text{A}$

A and B are geometrical isomers. Then :

(A) A is *cis* and B is *trans* (B) A is *trans* and B is *cis*
(C) A and B are *cis* (D) A and B are *trans*

23. Which one of the following, on ozonolysis gives, both aldehydes and ketones ?

(A) $\text{Me}_2\text{C} = \text{CHMe}$ (B) $\text{Me}_2\text{C} = \text{CMe}_2$
(C) $\text{MeCH}_2 - \text{C}(\text{Me}) = \text{CMe}_2$ (D) $\text{MeCH}(\text{Me}) - \text{CH} = \text{CHMe}$

24. An alkene on vigorous oxidation with KMnO_4 gives only propionic acid. The alkene is :

(A) $\text{CH}_3\text{CH}_2\text{CH} = \text{CH}_2$ (B) $\text{CH}_3\text{CH} = \text{CHCH}_3$
(C) $(\text{CH}_3)_2\text{C} = \text{CH}_2$ (D) $\text{CH}_3\text{CH} = \text{CH}_2$