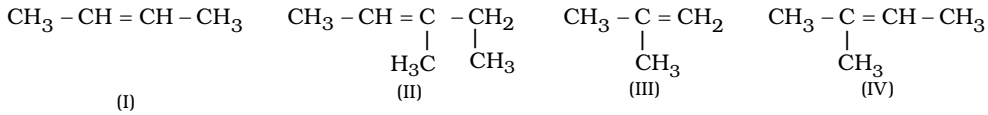
Date Planned : __ / __ / __	Daily Tutorial Sheet-12	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-3	Exact Duration :_____

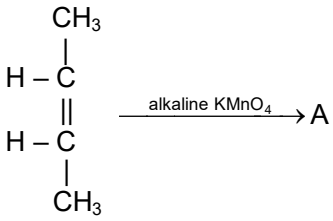
141. Arrange the following in the increasing order of stability



(I) (II) (III) (IV)

(A) I < III < IV < II **(B)** I < II < III < IV **(C)** IV < III < II < I **(D)** II < III < IV = I

142.



Which is true about this reaction?

(A) A is meso 1, 2-butan-di-ol formed by syn addition

(B) A is meso 1, 2-butan-di-ol formed by anti addition

(C) A is a racemic mixture of d and l, 1, 2-butan-di-ol formed by anti addition

(D) A is a racemic mixture of d and l 1, 2-butan-di-ol formed by syn addition.

143. The treatment of C_2H_5MgI with water produces

(A) Methane **(B)** Ethane **(C)** Ethanal **(D)** Ethanol

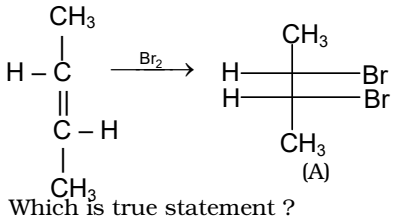
144. The order of reactivity of halogens towards halogenation of alkanes is

(A) $F_2 > Br_2 > Cl_2$ **(B)** $F_2 > Cl_2 > Br_2$ **(C)** $Cl_2 > F_2 > Br_2$ **(D)** $Cl_2 > Br_2 > F_2$

145. The chlorination of alkane involves

(A) Cl free radicals **(B)** Cl^+ species **(C)** Cl^- species **(D)** CH_3 free radicals

146.



(A)

Which is true statement ?

(A) A is formed by anti addition and is meso

(B) A is formed by syn addition and is meso

(C) A is formed by anti addition and is racemic

(D) A is formed by syn addition and is racemic