

JEE MAIN 2025

PAPER DISCUSSION

Attempt : 01

Date : 23rd Jan 2025

Shift : 01



Organic *Chemistry*

Which of the following react with Hinsberg reagent?

- (A) Aniline
- (B) N, N-Dimethyl aniline
- (C) Methyl amine
- (D) $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_5$

A

A only

B

A and C only

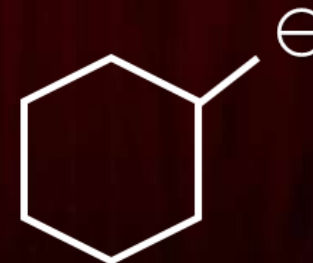
C

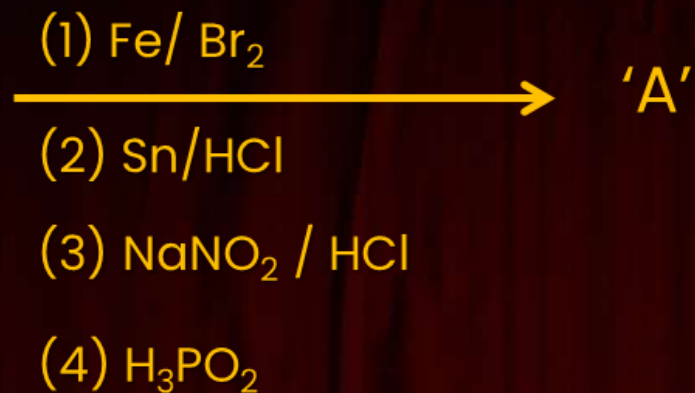
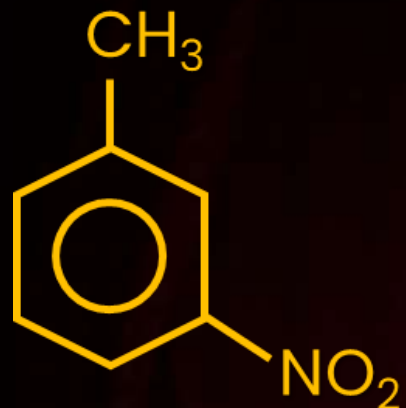
A, C and D

D

A and B only

Among the following, the most stable carbanion is

A**B****C****D**



Determine the molecular weight of the product formed

Statement 1 : Fructose can give tollens test even though it does not have aldehyde group

Statement 2 : When reacted with base fructose can undergo rearrangement to produce aldehyde group

A

Both statement – 1 and statement – 2 are true and the statement 2 is the correct explanation of the assertion.

B

Both statement – 1 and statement – 2 are true but statement 2 is not the correct explanation of the assertion.

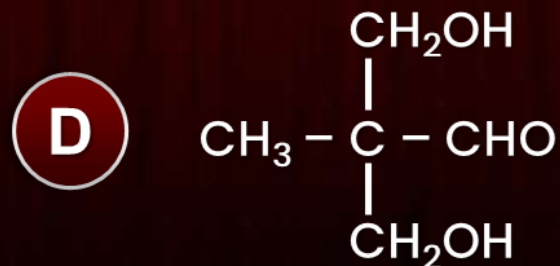
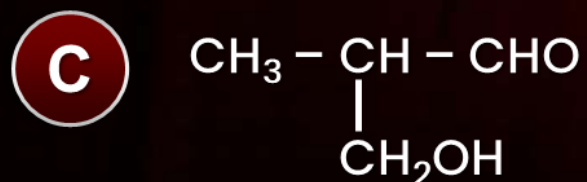
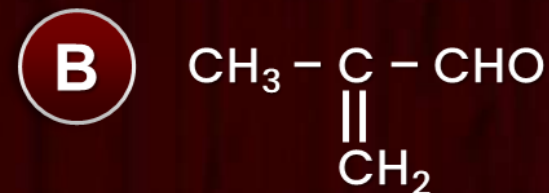
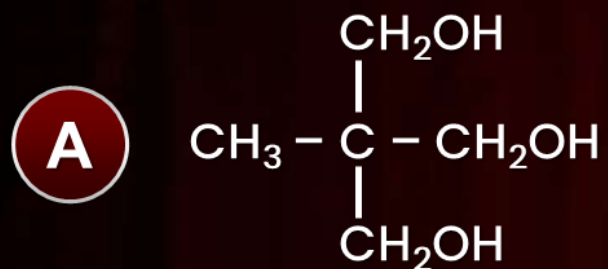
C

Statement – 1 is true but statement – 2 is false.

D

Statement – 1 and statement – 2 both are false.

Identify the product formed in the following reaction



Calculate the percentage by weight of S if 160 gram of organic compound produce 466 gram of BaSO_4 .

Name Reaction		Product	
(A)	Swartz Reaction	(P)	Ethyl iodide
(B)	Finkelstein Reaction	(Q)	Ethyl fluoride
(C)	Wurtz Fitting	(R)	Benzene Cyanide
(D)	Sandmeyer's Reaction	(S)	Ethyl Benzene

A A-Q, B-P, C-S, D-R

B A-P, B-Q, C-S, D-R

C A-R, B-P, C-Q, D-S

D A-S, B-Q, C-P, D-R

In estimation of sulphur by Carius method, 160 gm of organic compound gives 466 gm of Barium sulphate, % of sulphur in the organic compound is :