JEE MAIN 2025

PAPER DISCUSSION

Attempt : 01
Date : 24th Jan 2025
Shift : 02

LIVE STREAMING

LIVE STREAM

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JEE ULTIMATE CRASH COURSE 2025

Organic Chemistry

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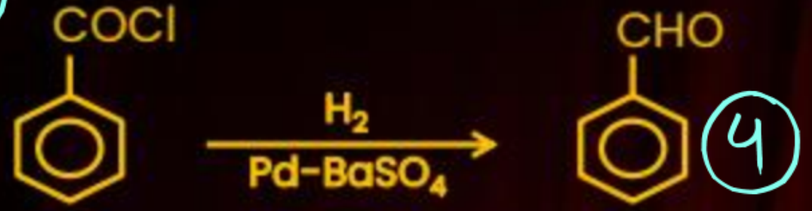
Match List-I with List-II.

A

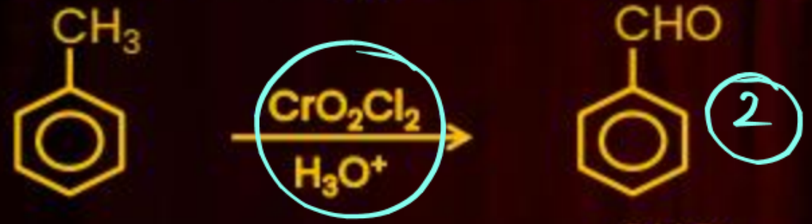
(A) 

4

(I) Gatterman Koch reaction

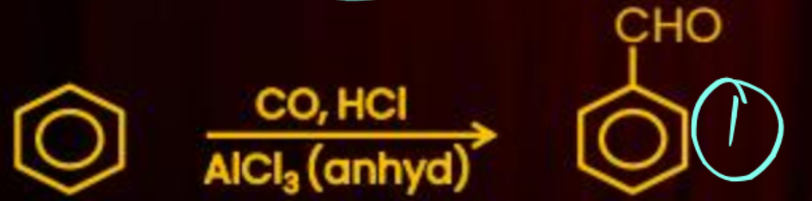
(B) $CH_3 - CN \xrightarrow[H_3O^+]{SnCl_2 - HCl} CH_3 - CHO$ 3

(II) Etard reaction

(C) 

2

(III) Stephen reaction

(D) 

1

(IV) Rosenmund reaction

A (A) – (IV), (B) – (III), (C) – (II), (D) – (I)

B (A) – (I), (B) – (II), (C) – (III), (D) – (IV)

C (A) – (II), (B) – (III), (C) – (IV), (D) – (I)

D (A) – (III), (B) – (II), (C) – (I), (D) – (IV)

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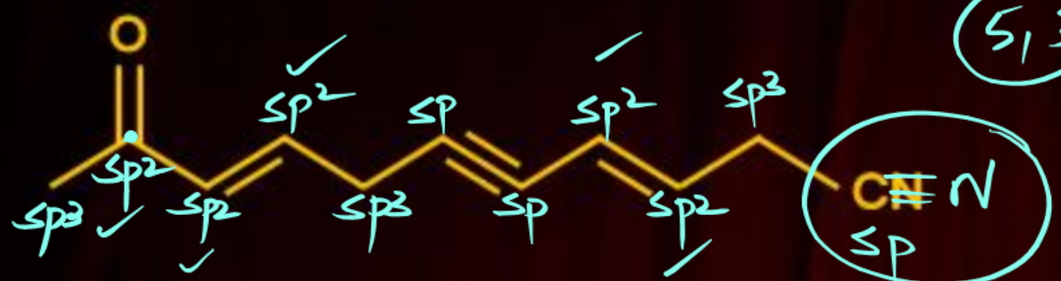
The number of sp^2, sp carbon atoms present in given compound is



5, 3

(A) 6, 2

(B) 3, 5

(C) 5, 3

(D) 2, 6

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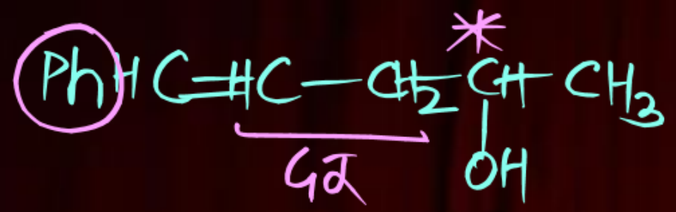
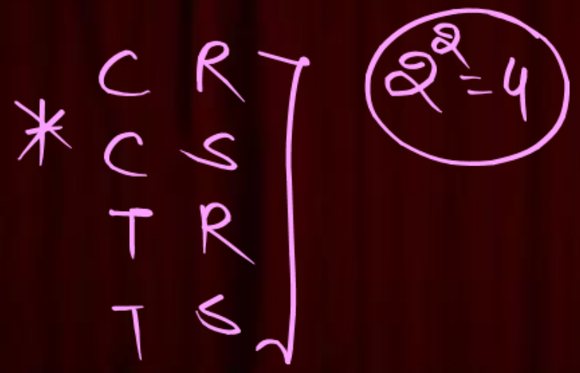
Total number of stereoisomers of given compound is

5-phenyl pent-4-en-2-ol

(4)





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0.25 gram of organic compound produces 0.15 gram of AgBr. [redacted] % of Br in the compound is:

$x \times 10^{-1}$ (nearest integer) then value of x is:

255 | 256

108 80
AgBr

188 ⟶ 80 gm

1 ⟶ $\frac{80}{188}$

0.15 ⟶ $\frac{80}{188} \times 0.15$

$= \frac{80 \times 0.15}{188} \times 100$

$= \frac{80 \times 0.15}{188 \times 0.25} \times 100$

$= 25.54\%$

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(D)

Above conversion can be done by using which reagents among the following.

(A) H_2SO_4, Br_2/H_2O, NaOH

(B) Ac_2O, Br_2/Fe, NaOH

(C) Ac_2O, Fe/Br_2, H_2O/H^+

(D) Ac_2O, $H2SO4$, Br_2, NaOH

① $Ac_2O/Py.$ PhNHAc
② H_2SO_4 Para block
③ $Br_2/AcOH$
④ NaOH, Δ

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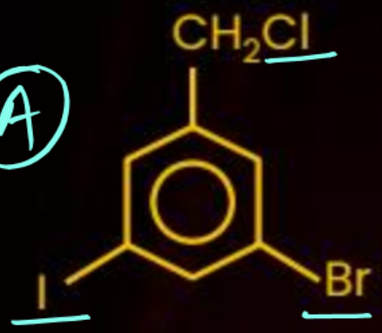
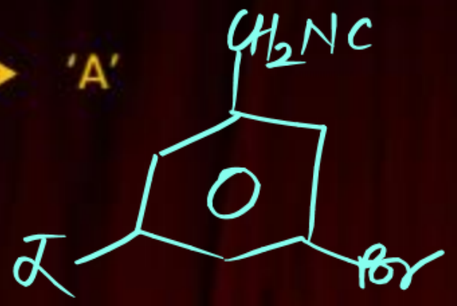
(A)

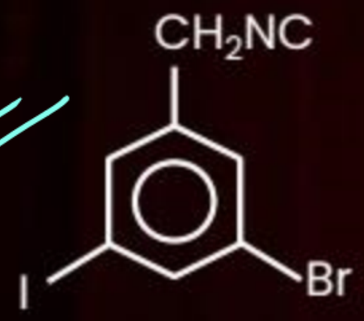


$\xrightarrow{AgCN}$ 'A'

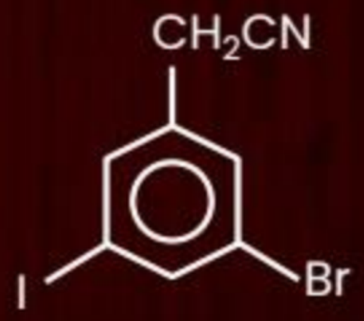


Major product will be ?

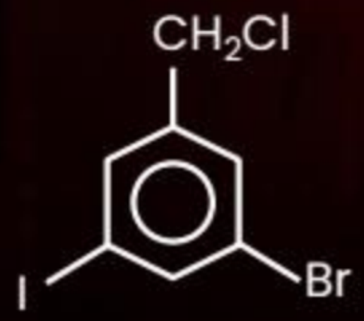
(A) ✓



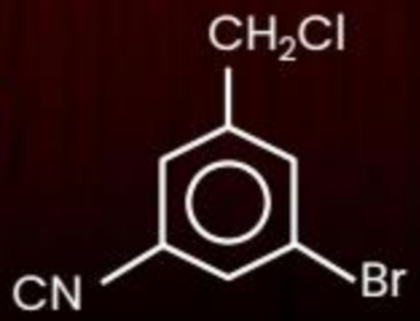
(B)



(C)

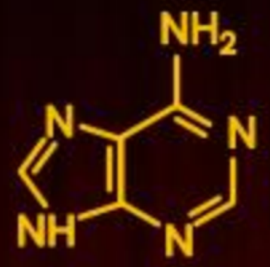


(D)

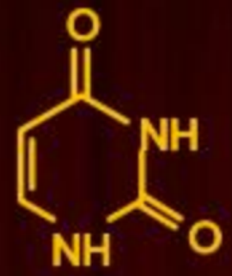


AG CUT

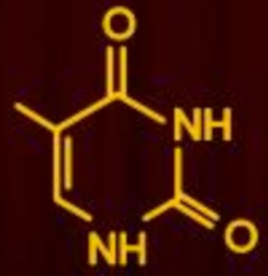
(A) Adenine (P)



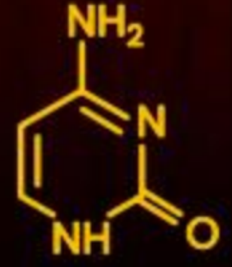
(B) Uracil (Q)



(C) Thymine (R)



(D) Cytosine (S)



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Hydrocarbon X → molar mass = 80

% C = 90%

DU in X = ?

3

C_6H_8

14

3

Thank you