

ARJUN BATCH

CLASS 12th | CHEMISTRY

**हैलोऐल्केन
तथा हैलोऐथीन**

अध्याय-1 | भाग-15

एकदम BASIC से!



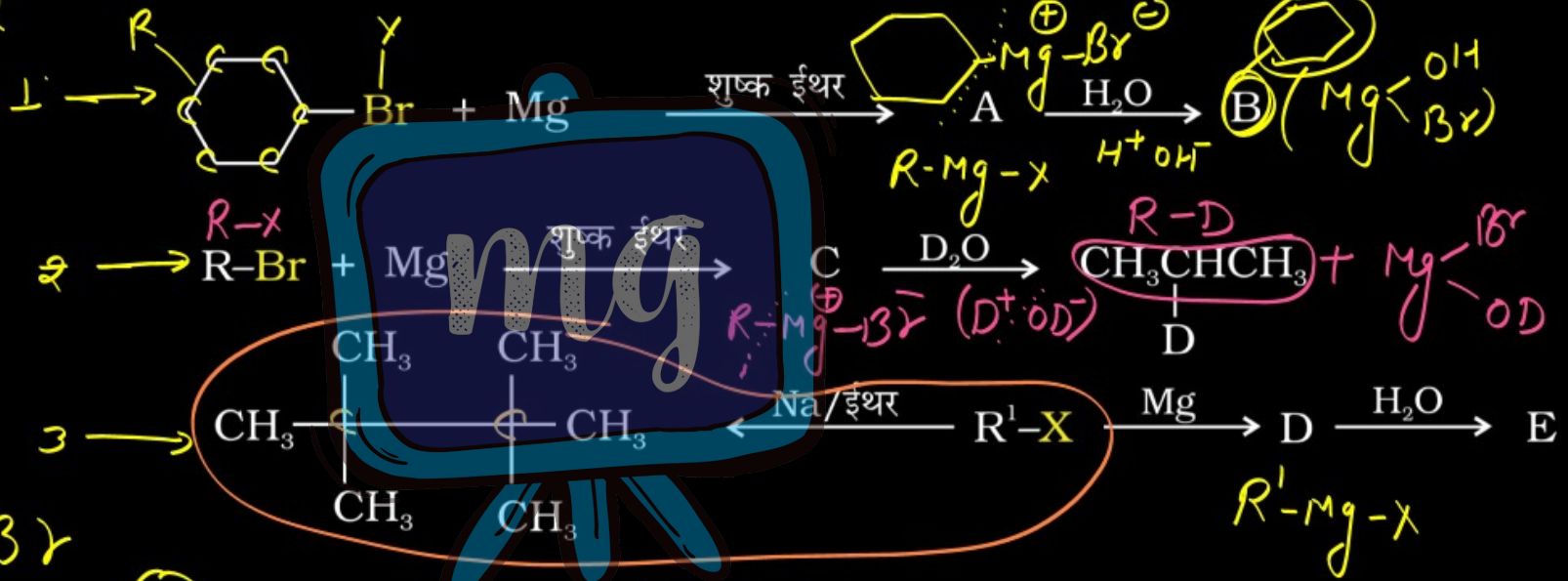
$X \rightarrow F, Cl, Br, I$

$R-X + Mg$
↓ शुष्क ईथर

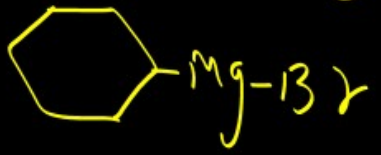


Imp

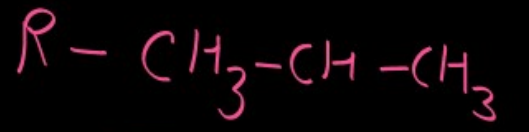
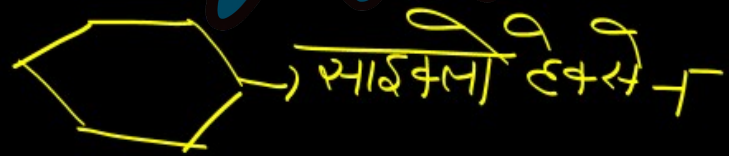
प्रश्न 1. निम्नलिखित में A, B, C, D, E, R तथा R' को पहचानिए-

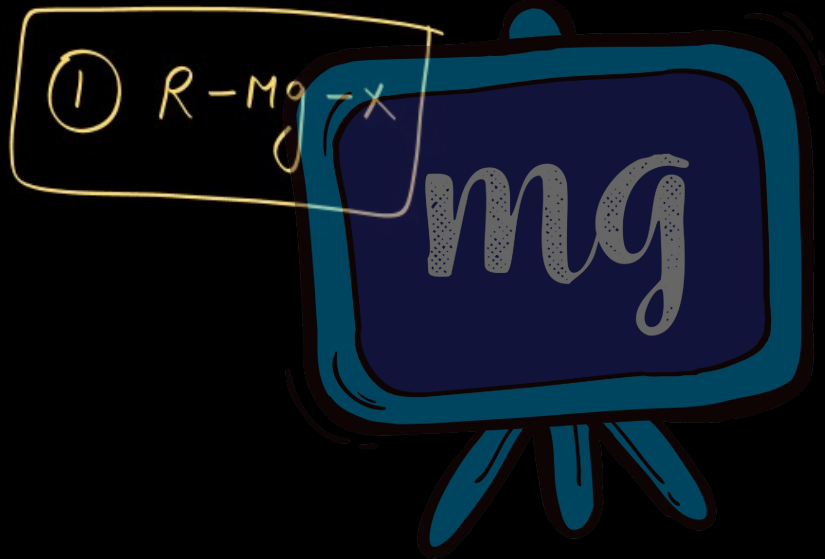


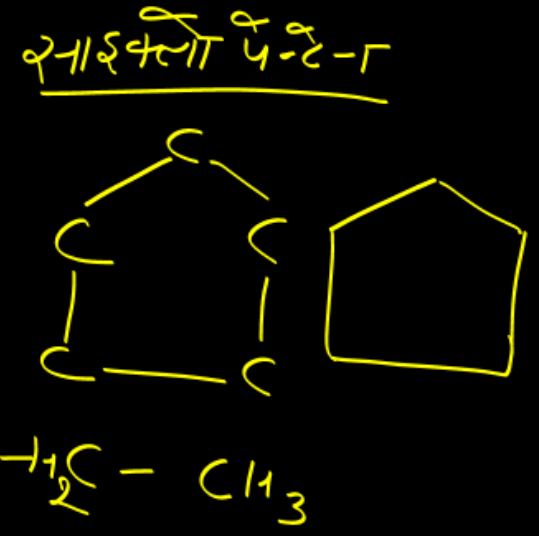
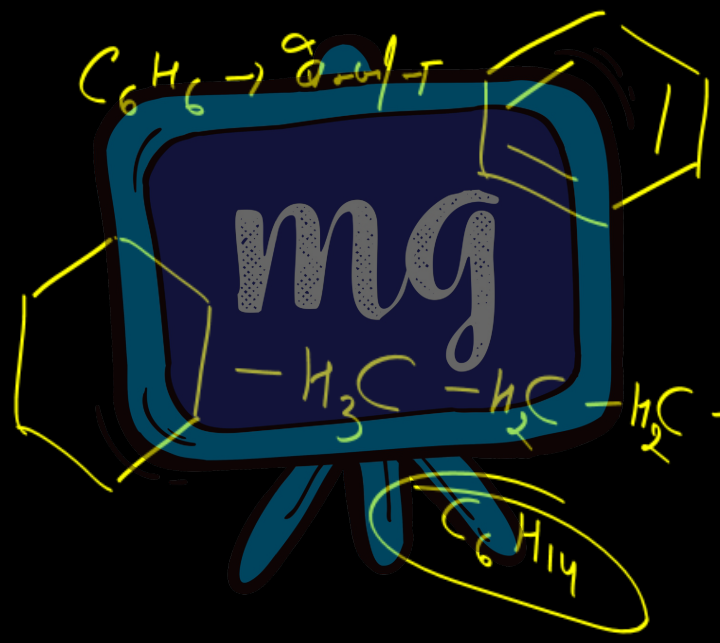
(A)

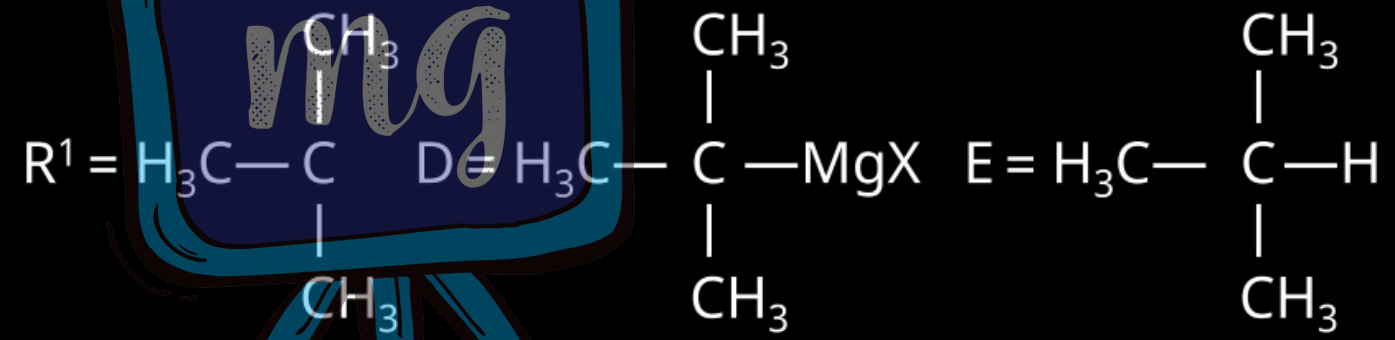
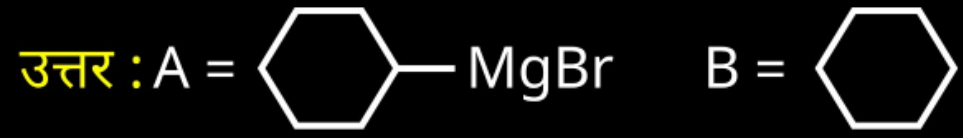


(B)





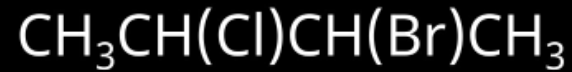




प्रश्न 2. निम्नलिखित यौगिकों के IUPAC नाम दीजिए-

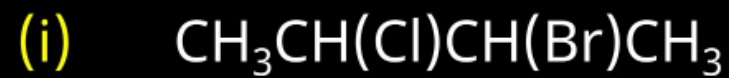


V. good
Q(i)



④ ③ ② ①
 $\text{CH}_3 - \text{CH} - \text{CH} - \text{CH}_3$
 | |
 Cl Br

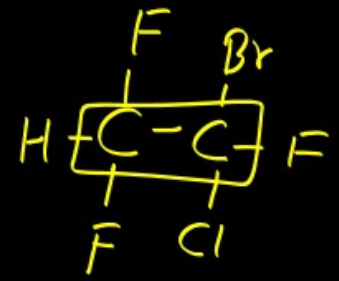
2-क्लोरो-3-ब्रोमोब्यूटेन



उत्तर : 2-ब्रोमो-3-क्लोरोब्यूटेन



(ii) **CHF₂CBrClF**

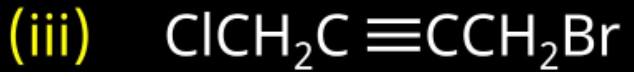


1-फ्लोरो-1-ब्रोमो-1,1,2-ट्राइफ्लोरो एथेन

(ii) $\text{CHF}_2\text{CBrClF}$

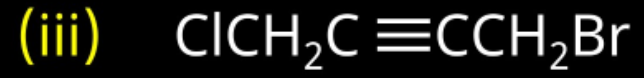
उत्तर : 1-ब्रोमो-1-क्लोरो-1, 2, 2-ट्राइफ्लोरोएथेन





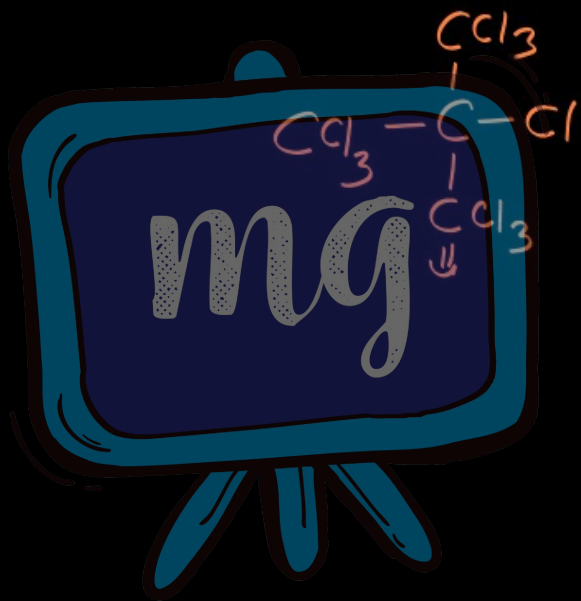
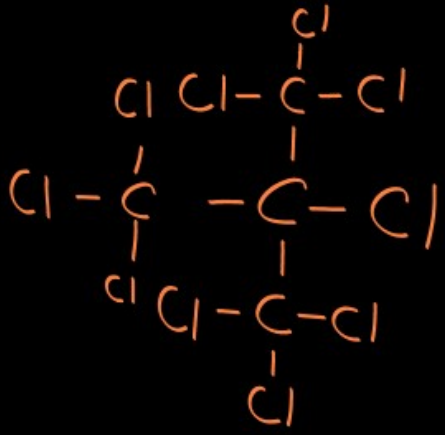
$\text{Cl}-\overset{\textcircled{4}}{\text{CH}_2}-\overset{\textcircled{3}}{\text{C}}\equiv\overset{\textcircled{2}}{\text{C}}-\overset{\textcircled{1}}{\text{CH}_2}-\text{Br}$

$1-\text{ब्रोमो}-4-\text{क्लोरोस्यूट-२-आइन}$



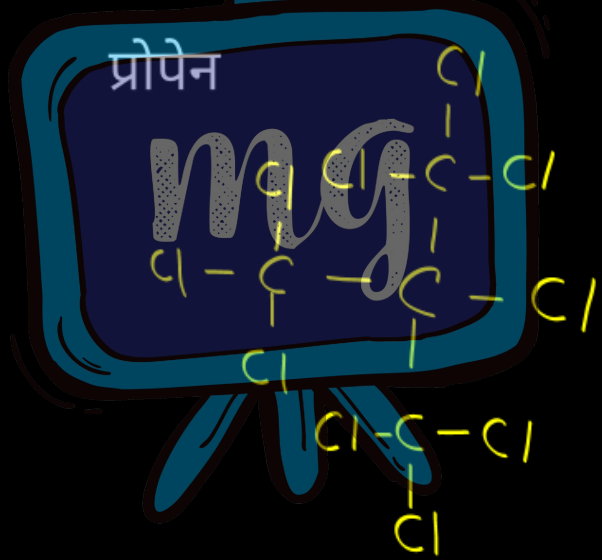
उत्तर : 1-ब्रोमो-4क्लोरोब्यूट-2-आइन

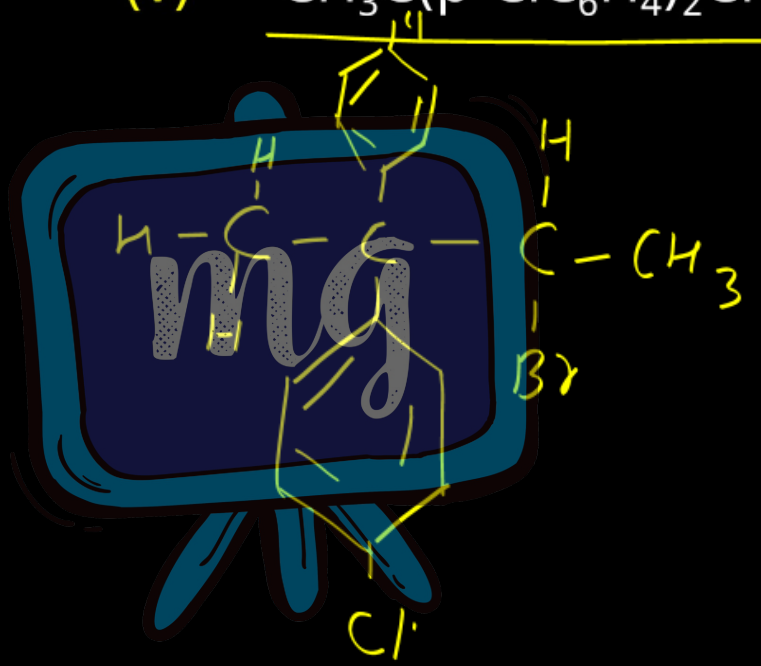






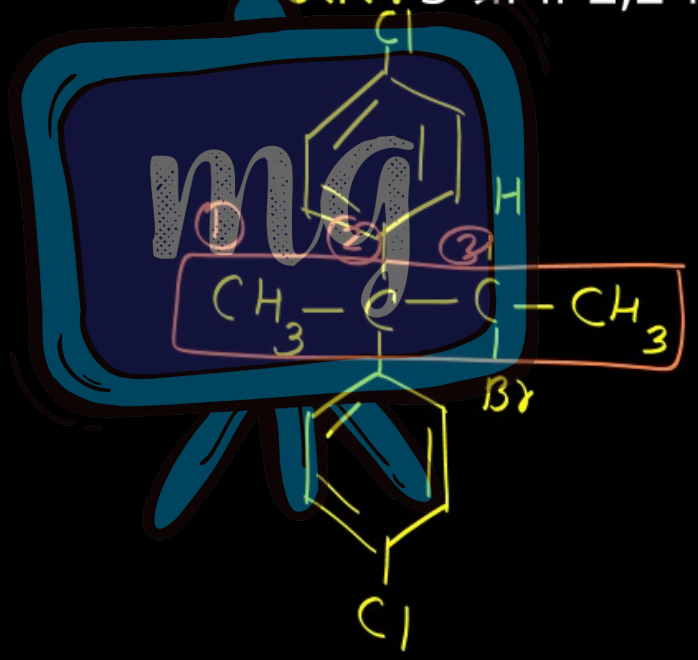
उत्तर : 1, 1, 1, 2, 3, 3, 3-हेप्टाक्लोरो-2-ट्राइक्लोरोमेथिल

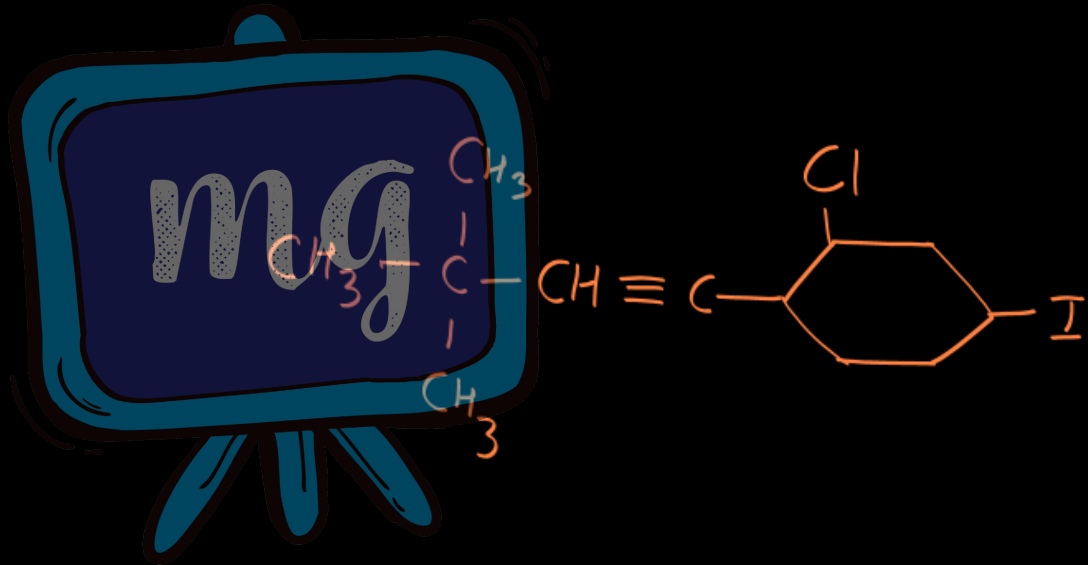






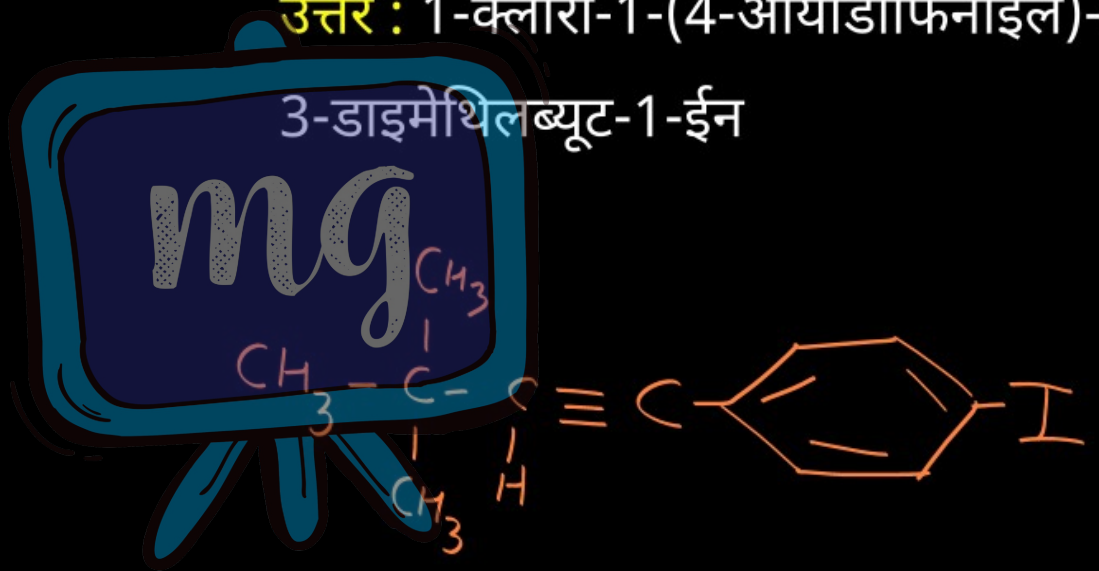
उत्तर : 3-ब्रोमो-2,2-बिस-(4-क्लोरोफेनिल) ब्यूटेन







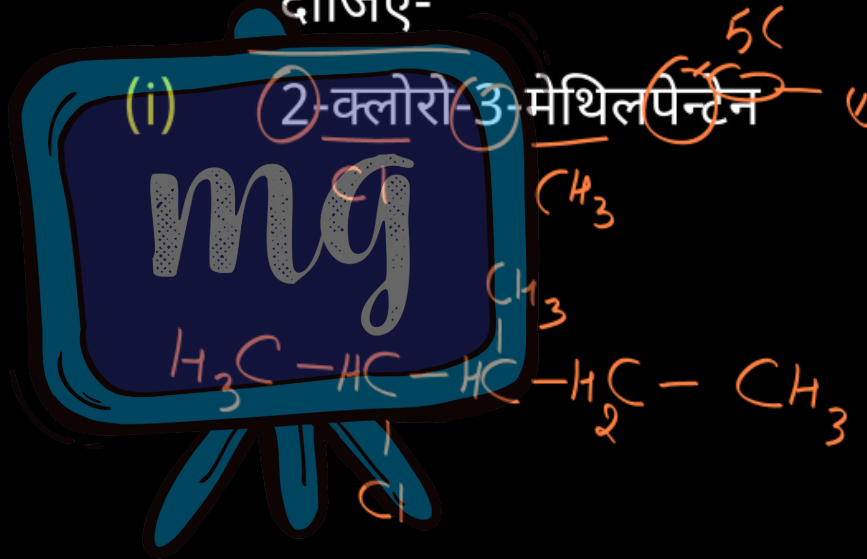
उत्तर : 1-क्लोरो-1-(4-आयोडोफिनाइल)-3,
3-डाइमेथिलब्यूट-1-ईन



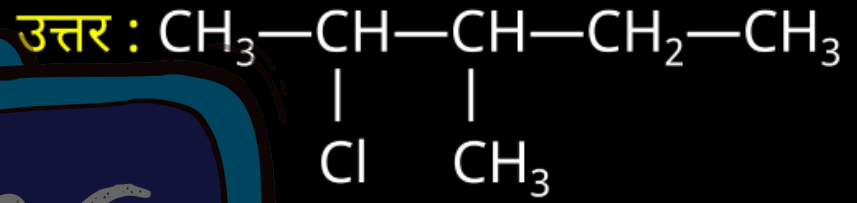
प्रश्न 3. निम्नलिखित कार्बनिक हैलोजन यौगिकों की संरचना

दीजिए-

(i) 2-क्लोरो-3-मेथिलपेन्टेन (5C) (5C 9-4)



(i) 2-क्लोरो-3-मेथिलपेन्टेन

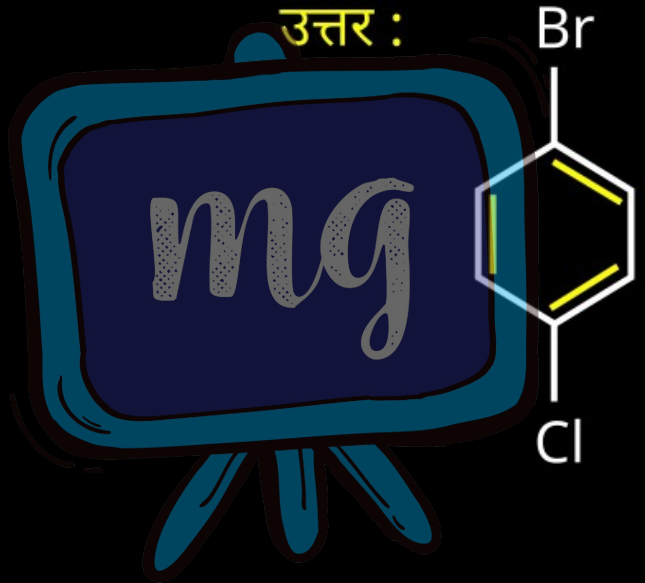


(ii) p-ब्रोमोक्लोरो बेन्जीन



(ii) p-ब्रोमोक्लोरो बेन्जीन

उत्तर :



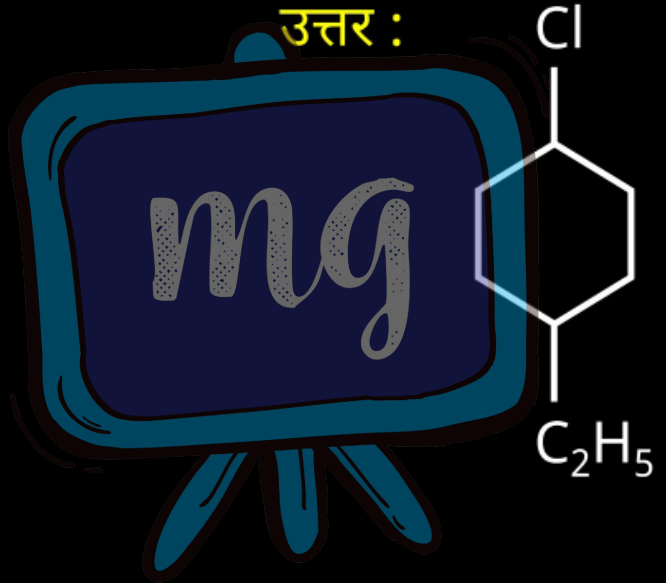
(iii) 1-क्लोरो-4-एथिलसाइक्लोहेक्सेन

$\xrightarrow{\text{Cl}}$ $\xrightarrow{\text{C}_2\text{H}_5}$
 9C 6C
 10C 16H₂₂



(iii) 1-क्लोरो-4-एथिलसाइक्लोहेक्सेन

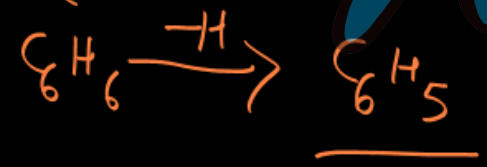
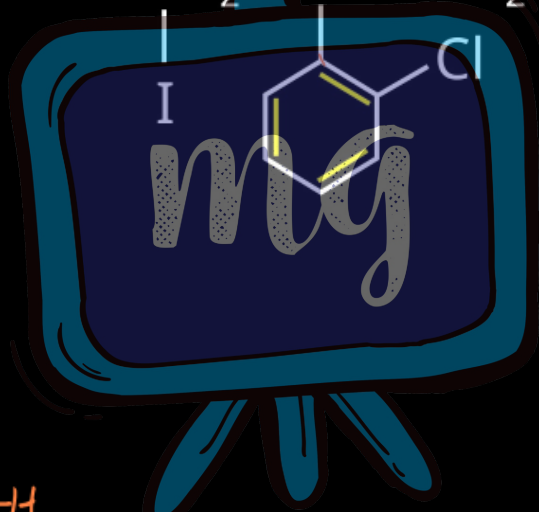
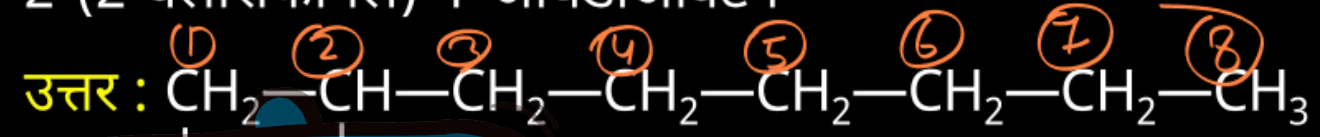
उत्तर :



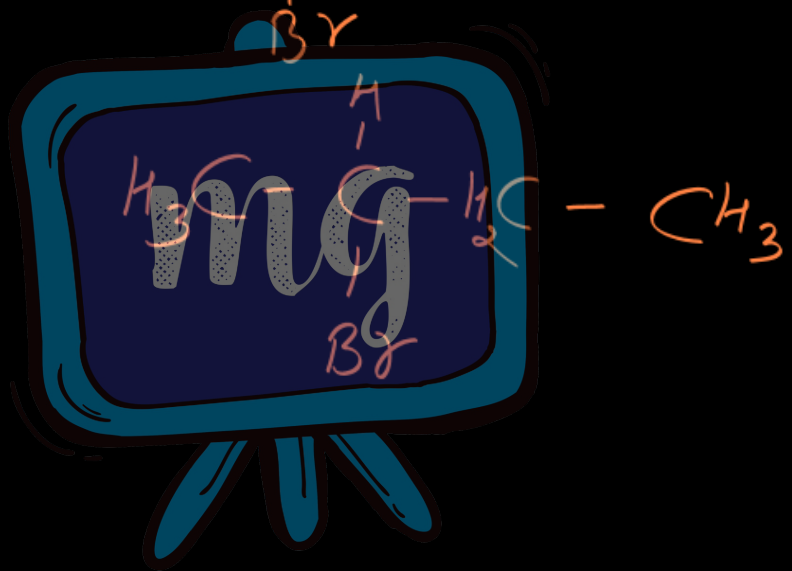
(iv) 2-(2-क्लोरोफेनिल)-1-आयडोऑक्टैन → 13ल
9-4



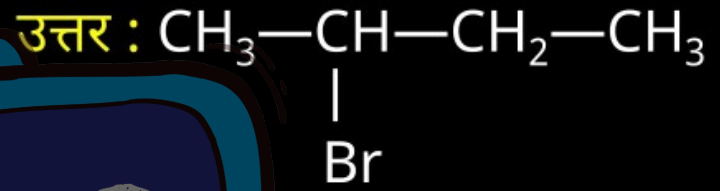
(iv) 2-(2-क्लोरोफेनिल)-1-आयडोऑक्टेन



(v) 2-ब्रोमोब्यूटेन ^{4C} कबल वलय-

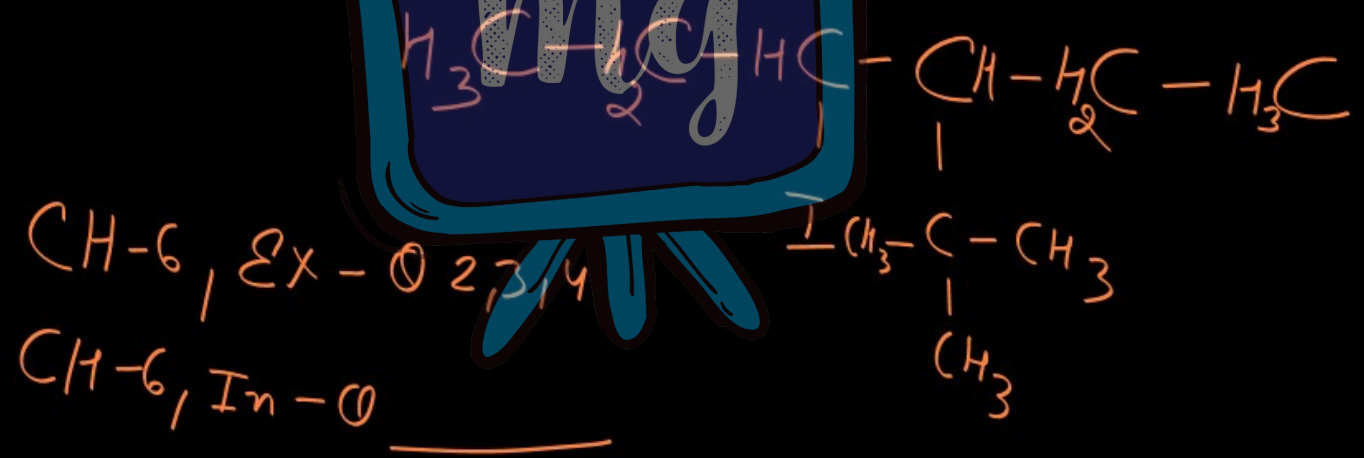
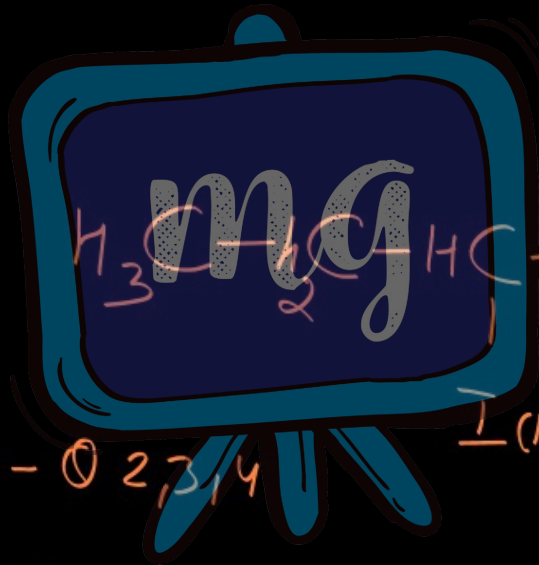


(v) 2-ब्रोमोब्यूटेन

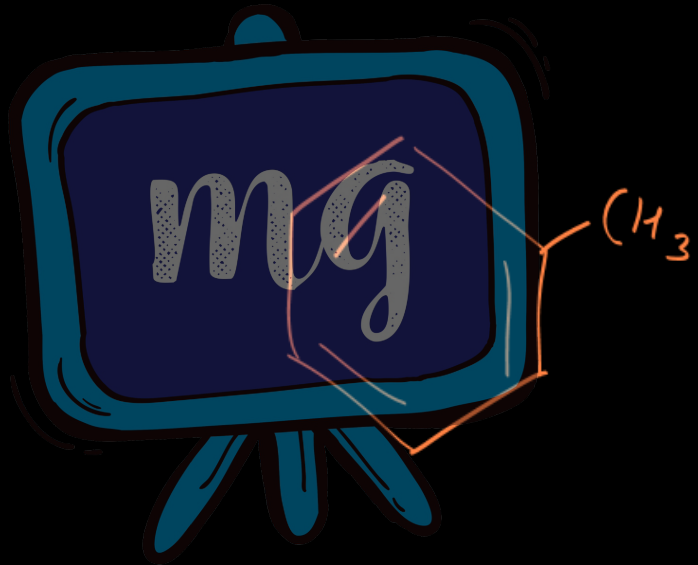


(vi) 4-³तृतीयक-ब्यूटिल-3-आयडोहेप्टेन (कल-ए-ए)

→ I 7C

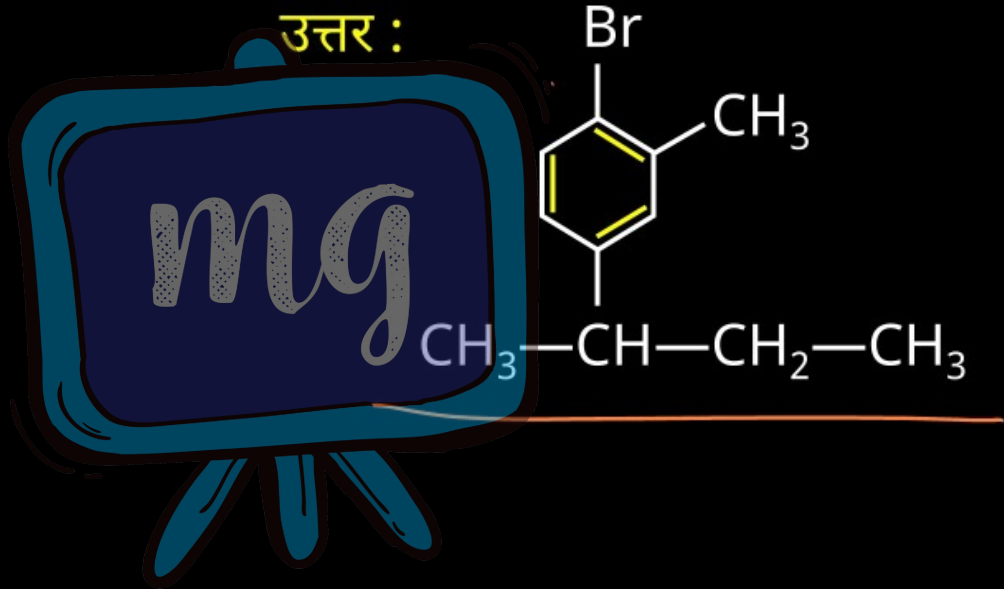


(vii) 1-ब्रोमो-4-द्वितीयक-ब्यूटिल 2-मेथिल बेन्जीन



(vii) 1-ब्रोमो-4-द्वितीयक-ब्यूटिल 2-मेथिल बेन्जीन

उत्तर :



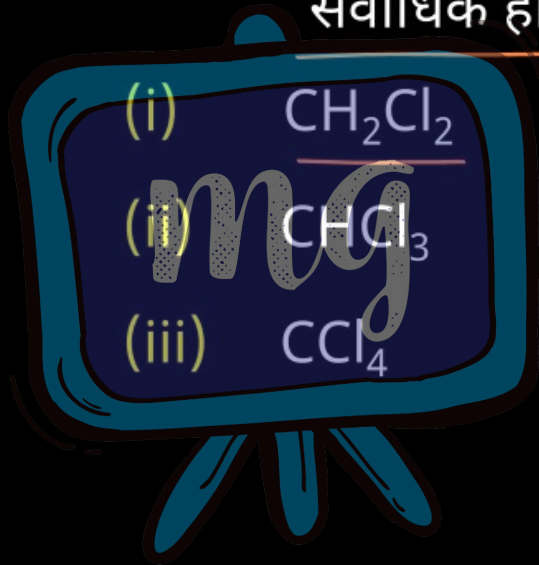
H.w (viii) 1,4- डाइब्रोमोब्यूट-2-ईन



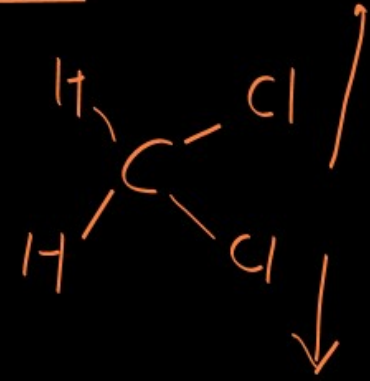
(viii) 1,4- डाइब्रोमोब्यूट-2-ईन



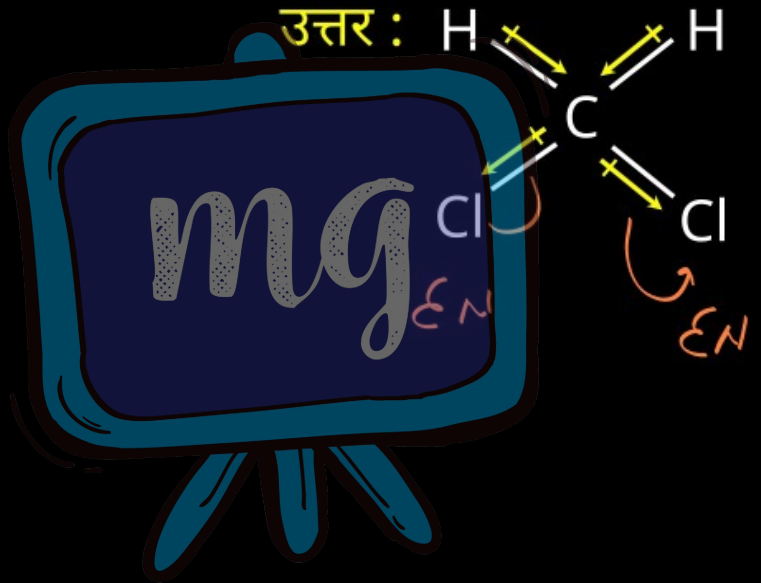
प्रश्न 4. निम्नलिखित में से किसका द्विध्रुव आघूर्ण सर्वाधिक होगा?



(i) CH_2Cl_2
(ii) CHCl_3
(iii) CCl_4



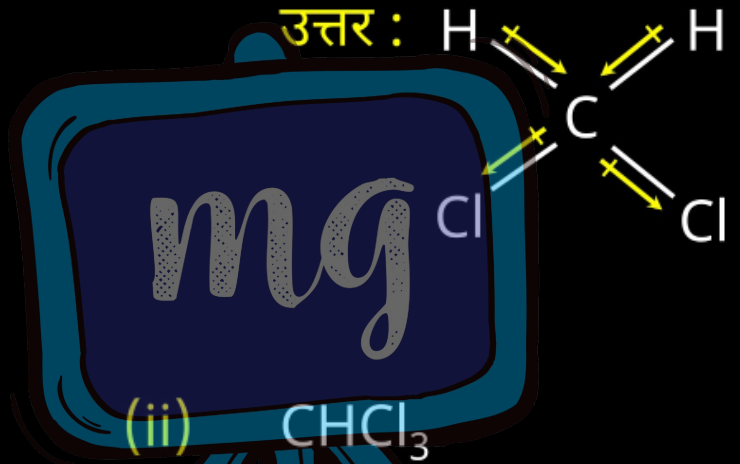
(i) CH_2Cl_2



$\mu = 1.60\text{D}$

(i) CH_2Cl_2

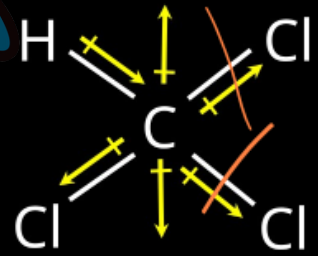
उत्तर :



$\mu = 1.60\text{D}$

(ii) CHCl_3

उत्तर :



$\mu = 1.08\text{D}$

(iii) CCl_4

