



# CHEMISTRY

# **BOOKS - MS CHOUHAN CHEMISTRY (HINGLISH)**

# HYDROCARBONS (ALKANES)



1. On halogenation, an alkane gives only one monohalogenated product.

The alkane may be:

A. 2-methyl butane

B. 2, 2-dimethyl propane

C. cyclopentane

D. both (b) and (c)

Answer: D

**2.** Which of the followiing compounds can be best prepared by Wurtz-reaction?

A. Iso-butane

B. n-butane

C. n-pentane

D. Iso-pentane

Answer: b

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3. A hydrocarbon A (V.D. = 36) forms only one monochloro substitution

product. A will be:

A. Iso-pantane

B. neo-butane

C. cyclopentane

D. methyl-cyclohexane

## Answer: B

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**4.** Ethyle iodide and n-propyl iodide are allowed to undergo Wurtz reaction. The alkane which will not be obtained in this reaction is:

A. butane

B. propane

C. pentane

D. hexane

Answer: b

5. 
$$CH_3 - CH - CH_2 - CH_3 \xrightarrow[]{Cl_2}{h_v} \xrightarrow[]{CH_3} h_v$$

Number of chiral generated during monochlorination in the above reaction:

A. 1 B. 2 C. 3 D. 4

# Answer: b

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**6.**  $CH_3Cl 
ightarrow CH_4$ 

Above conversion can be achieved by:

A.  $Zn \,/\, H^{\,+}$ 

B.  $LiAlH_4$ 

C.  $Mg/(ether)then H_2O$ 

D. all of these

# Answer: d

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7. 
$$n-bu an e \stackrel{Cl_2/hv}{\longrightarrow}$$

Give the total number of monochloro products (including sterioisomers), which are possible in the above reaction

 $\mathsf{A.}\,2$ 

 $\mathsf{B.}\,3$ 

**C**. 4

 $\mathsf{D.}\,5$ 

# Answer: b



**8.** 
$$CH_4 + Cl_2 \xrightarrow{hv} CH_3(Cl) + HCl$$

To obtain high yields of  $CH_3Cl$ , the ratio of  $CH_4$  to  $Cl_2$  must be:

A. high

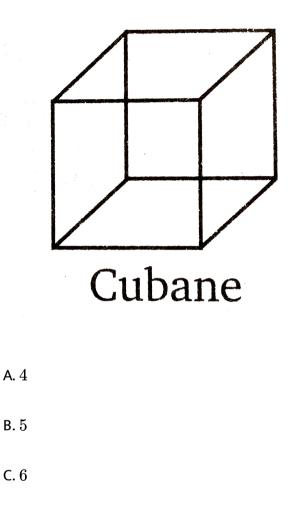
B. low

C. equal

D. can't be predicted

# Answer: a

9. Double bond equivalent of cubane is :

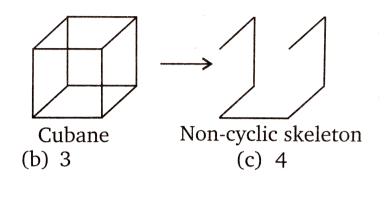


D. 7

Answer: b

10. How many bond cleavages are required to convert cubane into non-

cyclic skeleton?



A. 2 B. 3 C. 4 D. 5

Answer: d

11. 
$$CH_3 - CH - CH_2 - CH_3 \xrightarrow[]{Cl_2}{h_v} \xrightarrow[]{CH_3} h_v$$

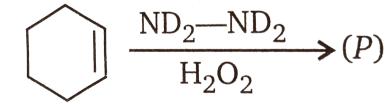
Number of monochloro product including stereoisomers.

A.	4
<i>_</i> .	

- $\mathsf{B.}\,5$
- **C**. 6
- D. 7

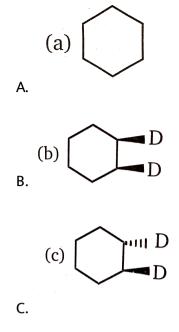
#### Answer: c

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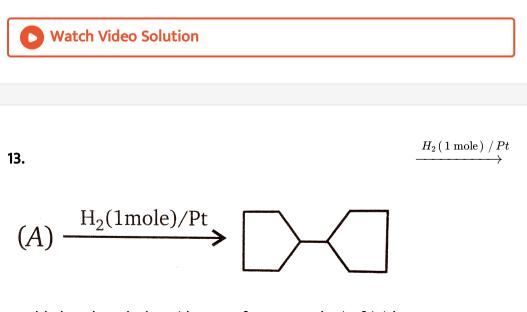
12.

Product (P) is :



D. both (b) and (c)

# Answer: b



Double bond equivalent (degree of Unsaturation) of (A) is:

<b>A</b> . 1	
В. 2	
C. 3	

#### Answer: c

D. 4

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**14.** Arrange the following alkanes in decreasing order of their heats of combustion.

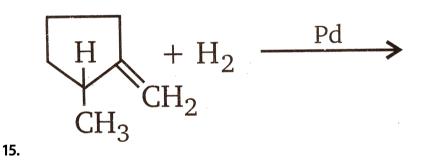
(i)  $CH_{3} - \bigcup_{\substack{I \\ CH_{3} \\ CH_{3} \\ (Neo-pentane) (i)}}^{CH_{3}} - CH_{3}$ (ii)  $CH_{3} - \bigcup_{\substack{I \\ CH_{3} \\ (Iso - pentane) (ii)}}^{CH_{3}} - CH_{2} - CH_{2} - CH_{3}$ (iii) (iii)  $CH_{3} - CH_{2} - CH_{2} - CH_{2} - CH_{3}$ (n-pentane)

A. (i) > (ii) > (iii)

B. 
$$(iii) > (i) > (ii)$$
  
C.  $(iii) > (ii) > (i)$   
D.  $(i) > (iii) > (ii)$ 

#### Answer: c





Product of the above reaction will be:

A. Racemic mixture

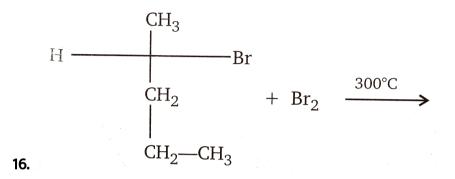
**B.** Diastereomers

C. Meso

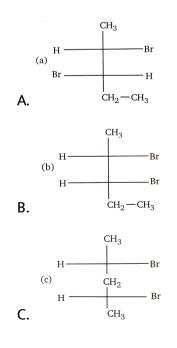
D. Constitutinal isomers

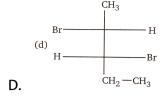
# Answer: b





Which of the following compound will not be obtained as a product in the above reaction?





Answer: d

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17. Following are the structures of four isomer of hexane. Among the

names given below, which correctly identifies the fifth isomers?

 $CH_{3}CH_{2}CH_{2}CH_{2}CH_{2}CH_{3}$   $(CH_{3})_{3}CCH_{2}CH_{3}$  $(CH_{3})_{2}CHCH_{2}CH_{2}CH_{3}$   $(CH_{3})_{2}CHCH(CH_{3})_{2}$ 

A. 2-Methyl pentane

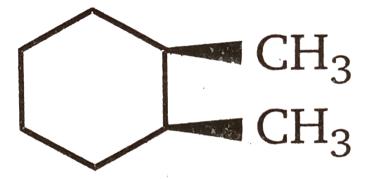
B. 2-Ethyl butane

C. 2,3-Dimethyl butane

D. 3-Methyl pentane

Answer: d

**18.** Which of the following describes the best relationship between the methyl groups in the chir conformation of the substance shown below?



A. Trans

B. Anti

C. Gauche

D. Eclipsed

Answer: c

**19.** Compare the stabilities of the following two compounds :

- A : cis-1-Ethy-3-methycyclohexane
- B : trans-1-Ethyl-3-methycyclohexane

A. A is more stable

B. B is more stable

C. A and B are of equal stability

D. No comparison can be made

# Answer: a

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**20.** Which conformation of ethatne has the lowest potential energy?

A. Eclipsed

B. Skew

C. Staggered

D. All will have equal potential energy

#### Answer: c



**21.** Ethane is subjected to combustion process. During the combustion the hybrid state of carbon changes from:

A.  $sp^2$  to  $sp^3$ B.  $sp^3$  to spC. sp to  $sp^3$ D.  $sp^2$  to  $sp^2$ 

# Answer: B

$$\textbf{22.} CH_3 - CH_2 - CH_2 - CH_3 \xrightarrow[]{AlCl_3}{\Delta} CH_3 - CH_1 - CH_3$$

Above reaction is an example of:

A. isomerization

**B.** polymerization

C. cracking

D. de-hydrogenation

Answer: a

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23. Which of the following has highest chlorine content?

A. Pyrene

B. DDT

C. Chloral

D. Gammaxene

#### Answer: a



24. Pure methane can be prepared by:

A. Wurtz reaction

B. Kolbe electrolysis method

C. soda-lime de-carboxylation

D. reduction with  $H_2$ 

# Answer: c



**25.** Calcium carbide + heavy water  $\rightarrow$  ?

The product of the above reaction is :

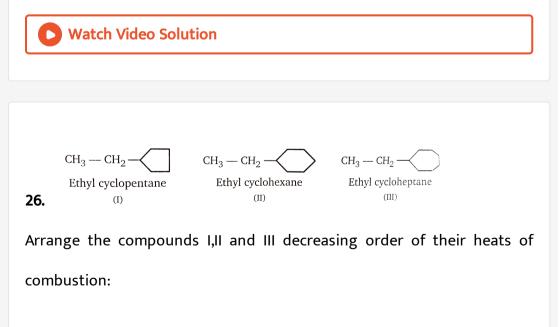
A.  $C_2H_2$ 

 $\mathsf{B.}\, CaD_2$ 

 $C.Ca(OD)_2$ 

D.  $CD_4$ 

#### Answer: c



A. II > I > III

 $\mathsf{B}.\, I > II > III$ 

 $\mathsf{C}.\,III>II>I$ 

D. III > I > II

#### Answer: c

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27. An alkane (mol. Wt. = 86) on bromination gives only two monobromo

derivatives (excluding stereoisomers). The alkane is:

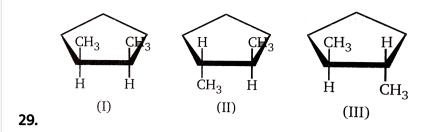
$$\begin{array}{l} \mathsf{A}.\,CH_3 - CH - CH_2 - CH_2 - CH_3 \\ & \stackrel{|}{CH_3} \\ \mathsf{B}.\,CH_3 - \stackrel{|}{C} \\ \stackrel{|}{CH_3} - CH_2 - CH_3 \\ \stackrel{|}{CH_3} \\ \mathsf{C}.\,CH_3 - CH - CH - CH_3 \\ & \stackrel{|}{CH_3} \\ CH_3 \\ \mathsf{C}.\,CH_3 - \stackrel{|}{CH_3} \\ \mathsf{C}.\,CH_3 - \stackrel{|}{CH_3} \\ \stackrel{|}{CH_3} \\ \mathsf{C}.\,CH_3 - \stackrel{|}{CH_3} \\ \mathsf{C}.\,CH_3 \\ \mathsf{C}.\,CH_3$$

#### Answer: C

**28.** Order of the bond strength of C-H bonds involving sp,  $sp^2$  and  $sp^3$  hybridized carbon atom is:

A. 
$$sp>sp^2>sp^3$$
  
B.  $sp^3>sp^2>sp$   
C.  $sp^2>sp^3>sp$   
D.  $sp^2>sp>sp^3$ 

#### Answer: a



Among the structures given, select the enantiomers:

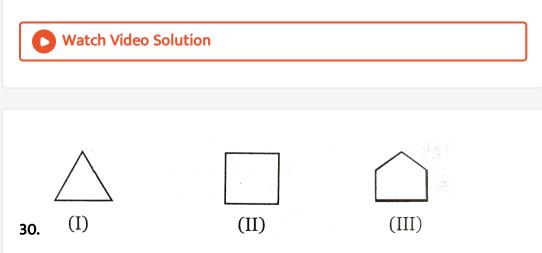
A. I and II

B. I and III

C. II and III

D. I, II and III

### Answer: c



The correct order of reactivity of I, II & III towards addition reactions is:

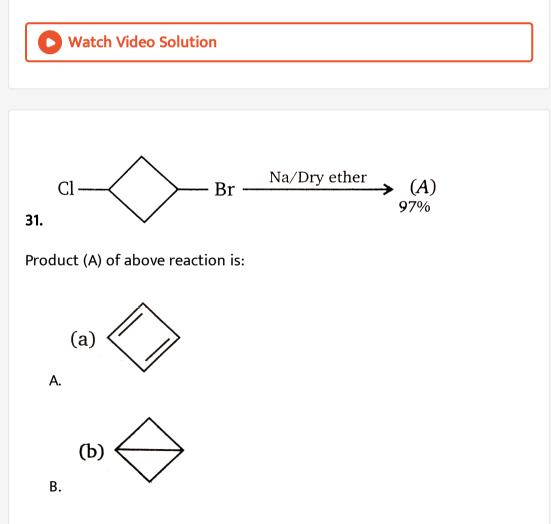
A. I gt III gt II

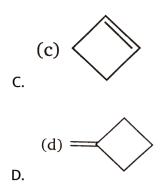
B. I gt II gt III

C. III gt II gt I

D. III gt I gt II

Answer: b





# Answer: b



**32.** Which of the following reactants is suitable for preparation of methane and ethane by using one step only?

A.  $H_2C = CH_2$ 

 $\mathsf{B.}\, CH_3OH$ 

 $\mathsf{C.}\,CH_3-Br$ 

 $\mathsf{D}.\,CH_3-CH_2-OH$ 

#### Answer: c

**33.** How many carbon atoms does not an alkane (not a cycloalkane) need before it is capable to exist in enantiomeric form?

A. 4 B. 5 C. 6 D. 7

# Answer: d

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**34.**  $(A) + Cl_2 \stackrel{hv}{\longrightarrow}$  monochloro product

To maximise the yield of monochloro product in the above reaction?

A.  $Cl_2$  must be added in excess

- B. Reactant (A) must be added in excess
- C. Reaction must be carried out in dark
- D. Reaction must be carried out with equimolar mixture of  $Cl_2$  and A

# Answer: b

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**35.** 
$$CH_2 - CH_2 - CH_2 - CH_3 \xrightarrow{Br_2/hv}$$

Major product in the above reaction is:

A. Racemic mixture

B. Meso

C. Diastereomers

D. Constitutinal isomers

### Answer: A

**36.** Select the chain propagation steps in the free-radical chlorination of methane.

(1)  $Cl_2 \rightarrow 2Cl^{\cdot}$  (2)  $Cl^{\cdot} + CH_4 \rightarrow CH_3Cl + H^{\cdot}$ (3)  $Cl^{\cdot} + CH_4 \rightarrow CH_3^{\cdot} + HCl$  (4)  $H^{\cdot} + Cl_2 \rightarrow HCl + Cl^{\cdot}$ (5)  $CH_3^{\cdot} + Cl_2 \rightarrow CH_3Cl + Cl^{\cdot}$ 

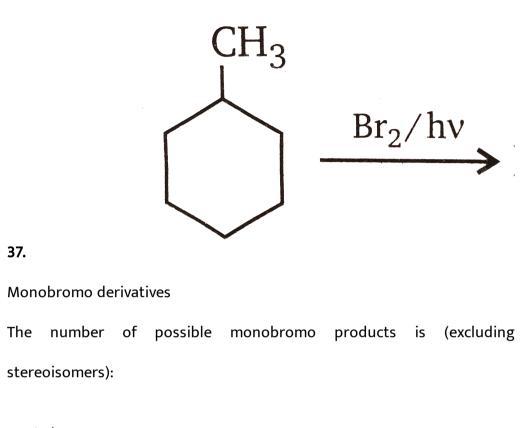
A. 2, 3, 5

B. 1, 3, 6

C.3, 5

D.2, 3, 4

Answer: C



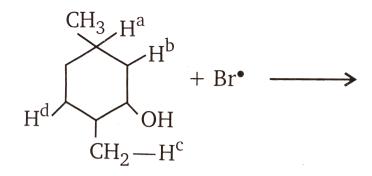
**A.** 4

 $\mathsf{B.}\,5$ 

**C**. 8

D. 10

Answer: B



38.

 $Br^*$  will abstract which of the hydrogen most readily?

A. a

 $\mathsf{B}.\,b$ 

**C**. *c* 

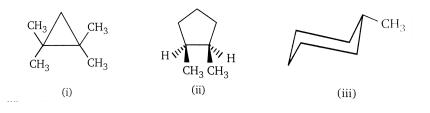
 $\mathsf{D}.\,d$ 

#### Answer: a



39. Arrange the following compounds in decreasing order of their heats

of combustion:



A. 
$$(ii) > (ii) > (i)$$

$$\mathsf{B.}\,(ii)>(i)>(iii)$$

$$\mathsf{C}.\left(iii
ight)>\left(i
ight)>\left(i
ight)>\left(ii
ight)$$

$$\mathsf{D}.\left(i
ight)>\left(ii
ight)>\left(iii
ight)$$

# Answer: d

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**40.** 
$$CH_{a}^{H_{3}} - CH_{2}^{H_{2}} - CH_{2}^{H_{2}} - CH_{2}^{H_{2}} - F$$

Arrange the hydrogens a, b, c, d, in decreasing order of their reactivities

towards chlorination:

A. 
$$a > b > c > d$$

 $\mathsf{B}.\, b > c > d > a$ 

 $\mathsf{C}.\,b>c>a>d$ 

 $\mathsf{D}.\, c > b > a > d$ 

Answer: c

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**41.** On catalytic reduction with  $H_2/Pt$  how many alkenes will give nbutane?

A. 1 B. 2 C. 3 D. 4

Answer: c

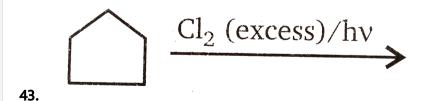
42. On catalytic reduction  $(H_2/Pt)$  how many alkenes will give 2-methylbutane?

A. 1 B. 2 C. 3

D. 4

# Answer: c

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How many dichloro products are formed in the above reaction (including stereoisomers) ?

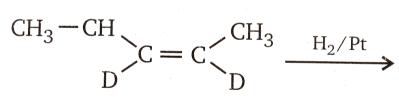
Β.	6
υ.	

C. 7

D. 9

#### Answer: c

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## 44.

Product of the above reaction will be:

A. Racemic mixture

**B.** Diastereomers

C. Meso

D. Constitutinal isomers

#### Answer: a



**45.** 
$$Ph - CH_2 - CH - CH_3 \xrightarrow[D]{Br_2/hv}$$

Product the above reactio will be :

A. Diastereomers

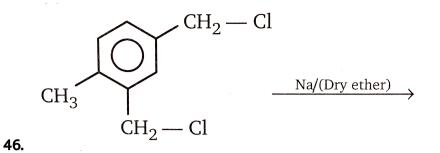
B. Racemic mixture

C. Meso

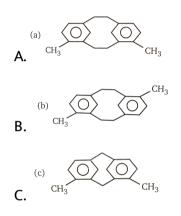
D. Constitutinal isomers

Answer: a





Product of the above Wurtz reaction is:



D. Both (a) and (b)

# Answer: d



**47.** Rank the transition states that occur during the following reaction steps in order of increasing stability (least  $\rightarrow$  most stable):

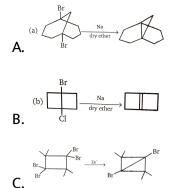
1.  $H_3C - \overset{+}{O}H_2 \rightarrow CH_3^+ + H_2O$ 2.  $(CH_3)_3C - \overset{+}{O}H_2 \rightarrow (CH_3)_3C^+ + H_2O$ 3.  $(CH_3)_2CH - \overset{+}{O}H_2 \rightarrow (CH_3)_2CH^+ + H_2O$ A. 1 < 2 < 3

- $\mathsf{B.}\,2<3<1$
- $\mathsf{C.1} < 3 < 2$
- $\mathsf{D.}\, 2 < 1 < 3$

#### Answer: c

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**48.** Which of the following does not represent major product of that reaction?

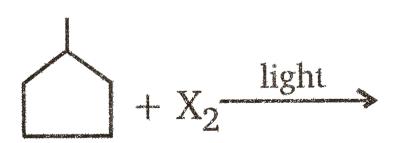




### Answer: d







monohalogenation product

Light is involved in which step of the reaction:

A. Initiation

B. Termination only

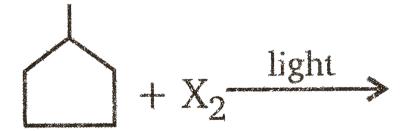
C. Propagation only

D. Propagation and Termination

#### Answer: a

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**50.** For the given (1,2,3), consider the following reaction



monohalogenation product

Which halogen will the best yield of a single monohalogenation product?

 $\mathsf{B.}\,Cl_2$ 

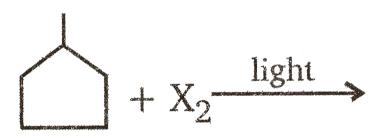
 $\mathsf{C}.\,Br_2$ 

D.  $I_2$ 

### Answer: c

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51. For the given (1,2,3), consider the following reaction



monohalogenation product

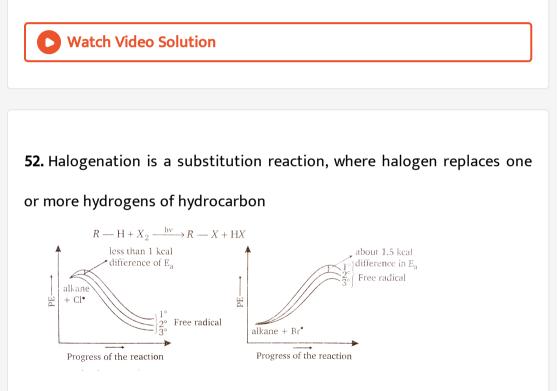
How many monohalo derivatives are possible (excluding stereoisomers)?

 $\mathsf{B.4}$ 

C.5

D. 6

#### Answer: B



Chlorine free radical make  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  radicals with almost equal ease, whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^{st}$  is

 ${3^\circ_{1600}}>{2^\circ_{82}}>{1^\circ_1}$ 

 $3^{\,\circ}_{\,5}\,>\,2^{\,\circ}_{\,3.8}\,>\,1^{\,\circ}_{\,1}$ 

1-halo-2,3-dimethyl butane will be obtained in better yields, if halogen is:

A.  $Br_2$ 

 $\mathsf{B.}\,Cl_2$ 

 $\mathsf{C}.\,I_2$ 

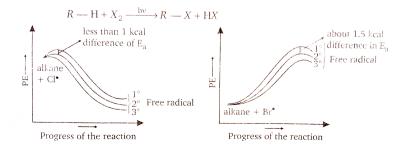
D. can't be predicted

Answer: b

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53. Halogenation is a substitution reaction, where halogen replaces one

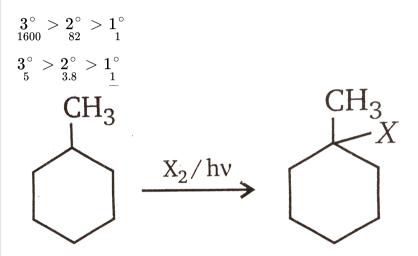
or more hydrogens of hydrocarbon



Chlorine free radical make  $1^\circ, 2^\circ, 3^\circ$  radicals with almost equal ease,

whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^{*}$  is



Above product will obtained in better yield if X is

A.  $Cl_2$ 

 $\mathsf{B}.\,I_2$ 

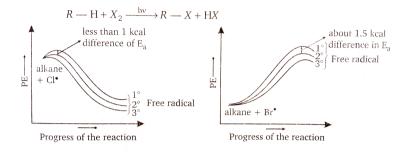
 $\mathsf{C}.\,Br_2$ 

D. can't be predicted

### Answer: c

### 54. Halogenation is a substitution reaction, where halogen replaces one

#### or more hydrogens of hydrocarbon



Chlorine free radical make  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  radicals with almost equal ease, whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^*$  is

Major product in the above reactio is:

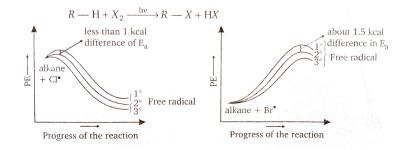
$$CH_3 \ - CH_3 - CH - CH_2 - Cl$$
  
A.  $CH_3 - CH - CH_2 - Cl$   
B.  $CH_3 - CH - CH_3$   
 $|_{Cl}$   
C.  $CH_3 - CH_2 - CH_2 - Cl$   
D.  $CH_3 - CH - CH_2 - CH_3$ 

#### Answer: a

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### 55. Halogenation is a substitution reaction, where halogen replaces one

or more hydrogens of hydrocarbon



Chlorine free radical make  $1^\circ, 2^\circ, 3^\circ$  radicals with almost equal ease,

whereas bromine free radicals have a clear preference for the formation

of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^{\,*}$  is

Which of the following will give five monochloro products, when allowed

to react with  $Cl_2$  in presence of sun light (excluding stereoisomers)?

A. n-pentane

B. Iso-pentane

C. 2-methyl-pentane

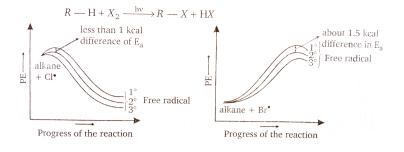
D. 3-Methyl pentane

### Answer: c



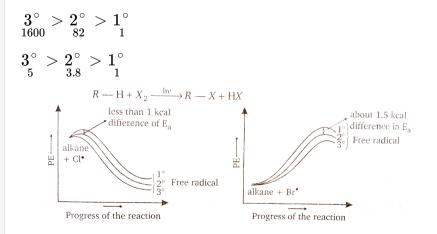
56. Halogenation is a substitution reaction, where halogen replaces one

or more hydrogens of hydrocarbon



Chlorine free radical make  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  radicals with almost equal ease, whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^{\,*}$  is



What is the value of x (% yield of product)?

### A. 18~%

#### $\mathsf{B.}\,82\,\%$

 $\mathsf{C}.\,90\,\%$ 

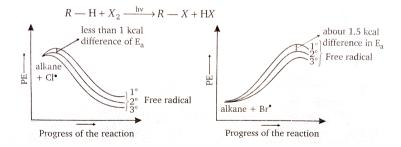
D. 60~%

#### Answer: c



### 57. Halogenation is a substitution reaction, where halogen replaces one

or more hydrogens of hydrocarbon



Chlorine free radical make  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  radicals with almost equal ease, whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^*$  is

What would be the product ratio x/y in the chlorination of propane if all

the hydrogen were abstracted at equal rate?

$$\begin{array}{c} CH_3 - CH_2 - CH_3 \xrightarrow{Cl_2} & CH_3 - CH_2 - CH_2 - Cl + CH_3 - \begin{array}{c} C \\ & | \\ & Cl \\ & (x) \end{array} \xrightarrow{Cl} & (y) \end{array}$$

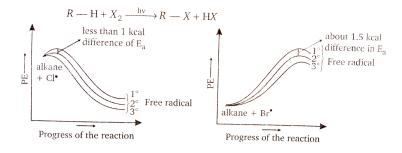
A. 
$$\frac{1}{3}$$
  
B.  $\frac{3}{1}$   
C.  $\frac{9}{1}$   
D.  $\frac{1}{9}$ 

### Answer: b



58. Halogenation is a substitution reaction, where halogen replaces one

or more hydrogens of hydrocarbon



Chlorine free radical make  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  radicals with almost equal ease, whereas bromine free radicals have a clear preference for the formation of tertiary free radicals. So, bromine is less reactive, and more selectrive whereas chlorine is less selective and more reactive.

The relative rate of abstraction of hydrogen by  $Br^{\,*}$  is

$${3^\circ_{1600}} > {2^\circ_{82}} > {1^\circ_1} \ {3^\circ_5} > {2^\circ_{3.8}} > {1^\circ_1}$$

How many dichloro products (including stereoisomers) will be formed when R-2-chloropentane reacts with  $Cl_2$  in presence of UV radiation?

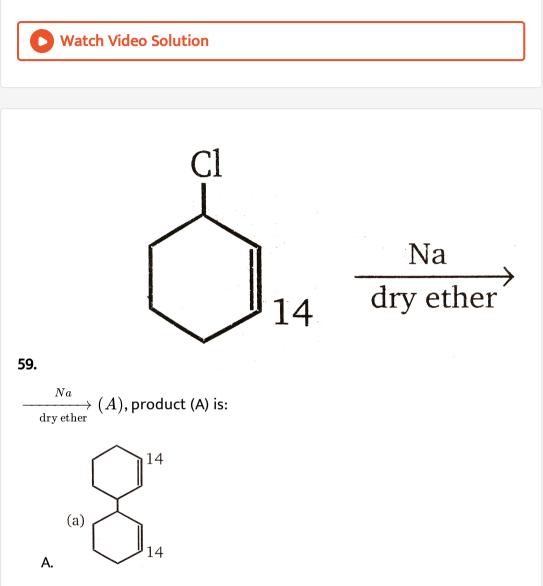
A. 5

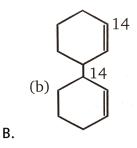
**B**. 6

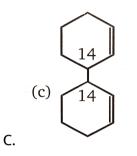
C. 7

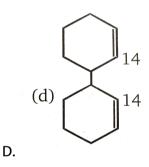
D. 8

### Answer: c









## Answer: a,b,c



$$(A);$$

60.

 $\stackrel{H_2\,(\,1\,\mathrm{mole}\,)}{\longrightarrow}(A), \mathsf{product}$  (A) is:

A. Meso compound

B. Racemic mixture

C. Diastereomers

D. Optically active

#### Answer: a

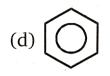
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61. 
$$Ph-CH_2-\overset{O}{\overset{||}{C}}-OH \xrightarrow{(1)\,NaOH\,,CaO\,,\,\Delta}{(2)\,H^{\oplus}}(A)$$

Product (A) is:

A.  $Ph-CO_2H$ 

- $\mathsf{B}. Ph CH_2 OH$
- $C. Ph CH_3$



D.

Answer: c

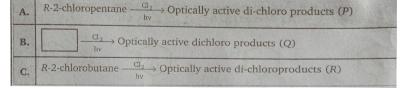
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### 62. Match the column I with column II and with column III.

Column (I)		Column (II)		Column (III)	
Compound		Mono-chloro products		Monochloro products	
		(excluding stereoisomerism)		(including stereoisomerism)	
(a)		(p)	ter . 1	(w)	1,
(b)	$CH_3 - CH - CH_2 - CH_3$ $CH_3$ $CH_3$	(q)	2	(x)	3
(c)	$\begin{array}{c} \operatorname{CH}_3\operatorname{CH}_3\\   &  \\ \operatorname{CH}_3-\operatorname{C}-\operatorname{C}-\operatorname{CH}_3\\   &  \\ \operatorname{CH}_3\operatorname{CH}_3\end{array}$	(r)	3	(y)	5
(d)	$CH_3 - CH_2 - CH_2 - CH_3$	(s)	4	(z)	6

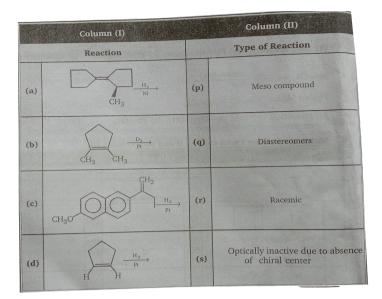


**63.** Complete the following reaction



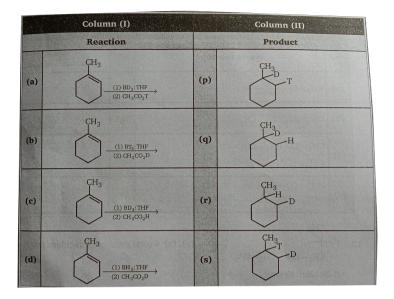
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### 64. Match the column I and II



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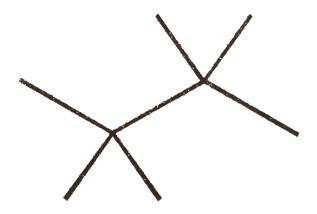
### 65. Match the column I and II



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**66.** How many distinct monochlorinated products, (including sterioisomers) may be obtained when then alkane show below is heated

in the presence of  $Cl_2$ ?



A. 1

 $\mathsf{B.}\,2$ 

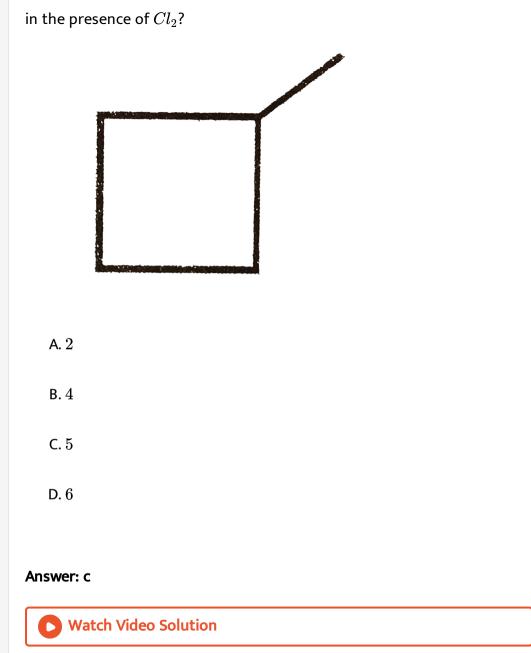
C. 3

**D**. 4

#### Answer: a

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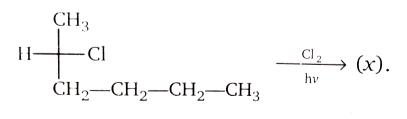
**67.** How many distinct monochlorinated products, (including sterioisomers) may be obtained when then alkane show below is heated



### 68. Match the column I and II

	Column (I)		Column (II)
	Wurtz reaction		Number of dimerization product
(a)	$CH_3 - Cl \xrightarrow{Na}_{dry ether}$	(p)	5
(b)	$CH_3 - Cl + CH_3 - CH_2 - Cl \xrightarrow{Na}_{dry \text{ ether}} \rightarrow$	(q)	6
(c)	$\begin{array}{l} \operatorname{CH}_3 - \operatorname{Cl} + \operatorname{CH}_3 - \operatorname{CH}_2 - \operatorname{Cl} \\ + \operatorname{CH}_3 - \operatorname{CH}_2 - \operatorname{CH}_2 - \operatorname{Cl} \xrightarrow[\operatorname{dry ether}]{\operatorname{Na}} \end{array}$	(r)	3
(d)	$ \begin{array}{l} H_2 C = CH - CH = CH - CH_2 - Cl \\ + CH_3 - CH_2 - Cl & \xrightarrow{Na} \\ \hline \end{array} $	(s)	1

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# S-2-chloro hexane

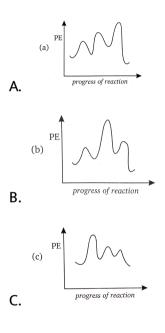
= total

### number of di-chloro product s-2-chloro hexane

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69.

**1.** Draw an energy profile diagram for a three step reaction in which first step is slowest and last step is fastest. (Assume that reaction is exothermic)



D. None of these

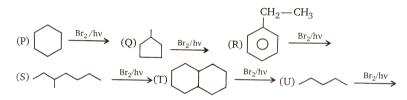
#### Answer: c

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### Level 1 Q 31 To Q 50

1. Among the following free radical bromination reactions, select those in

which  $2^{\circ}$  halide is the major product-



### A. P, Q, R, S

B. P, R, U

C. P, R, S, T

D. P, Q, R, S, T

Answer: b

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