

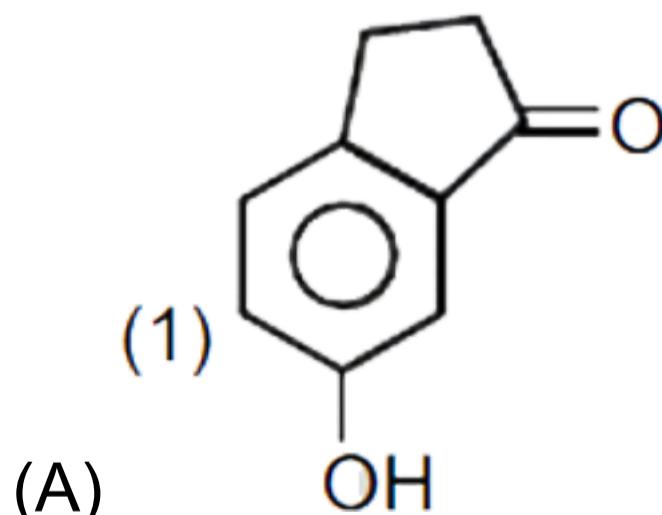
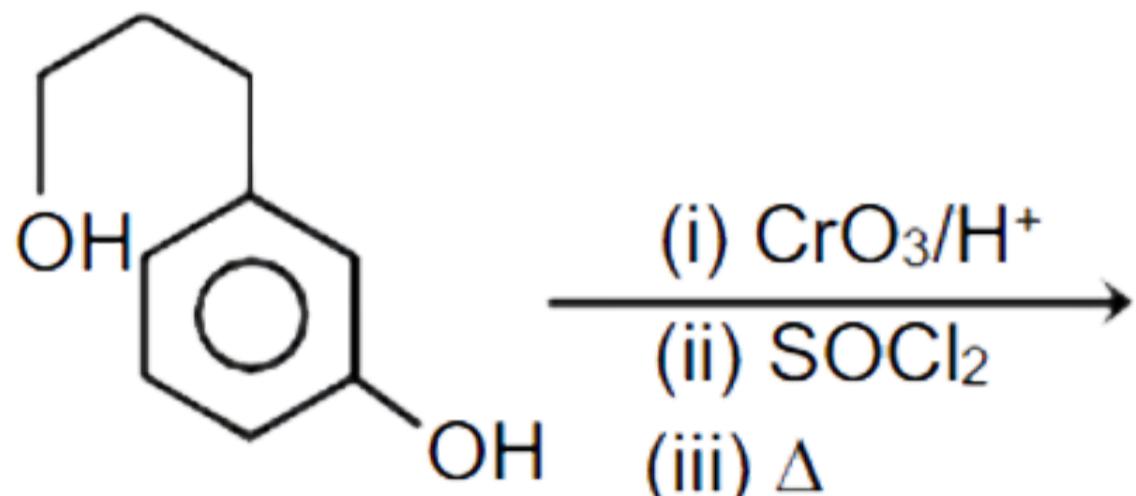
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Question

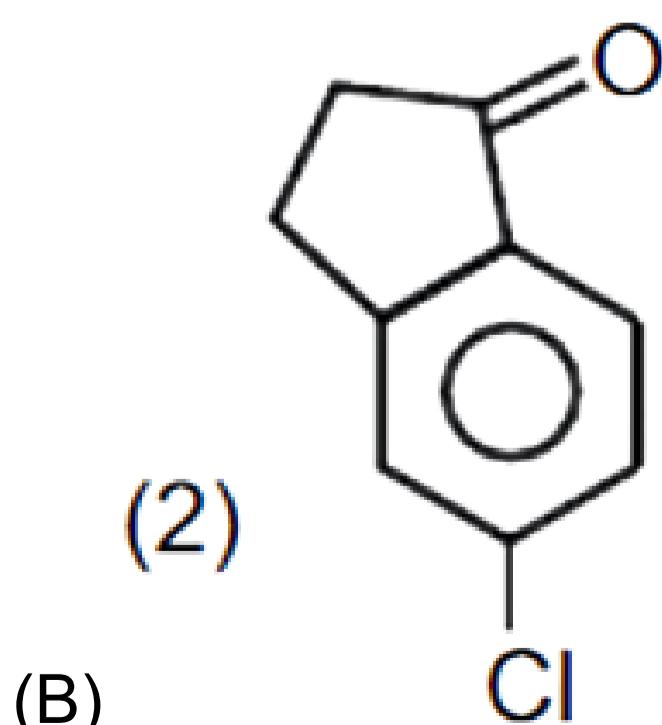
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MEMORY BASED - CHEMISTRY**

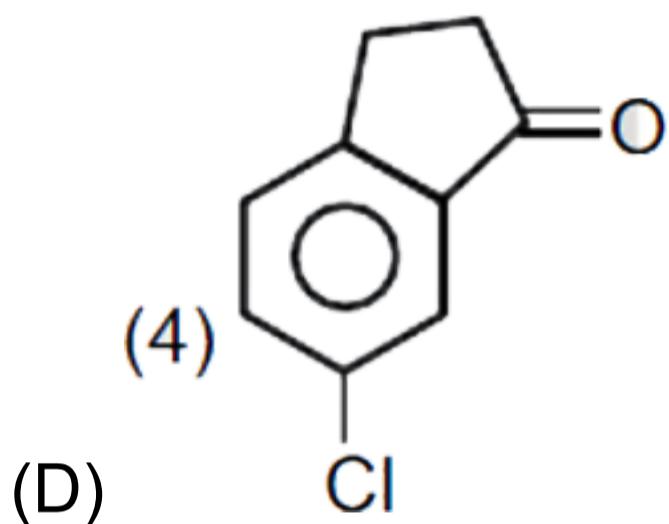
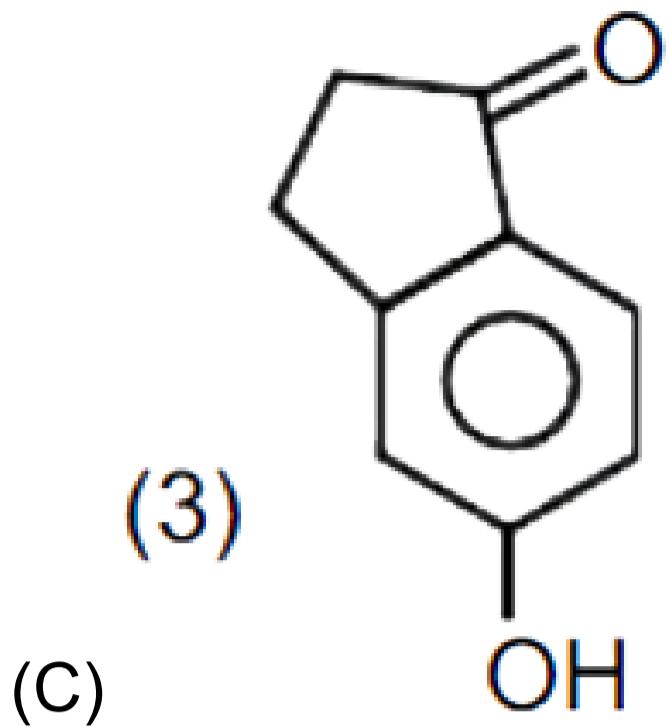
1.



(A)



(B)



CORRECT OPTION: C

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2 - 9677644

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MEMORY BASED - CHEMISTRY**

Which of the following is thermosetting polymer?

(A) Buna-S

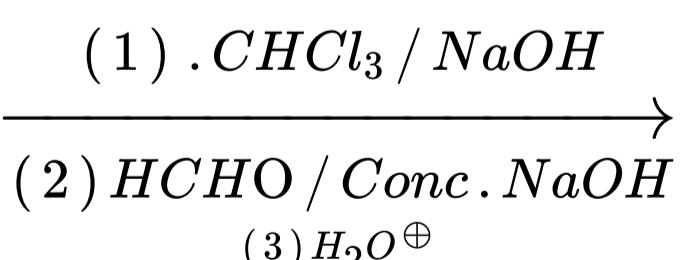
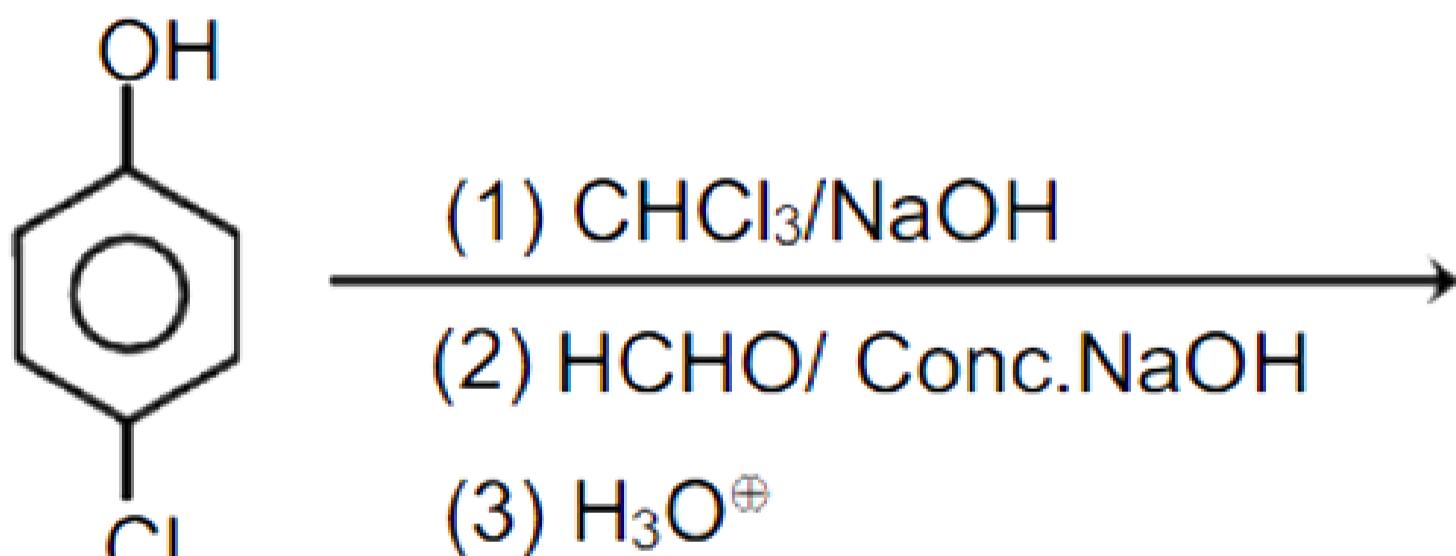
- (B) PVC
(C) Bakelite
(D) Polyethylene

CORRECT OPTION: C

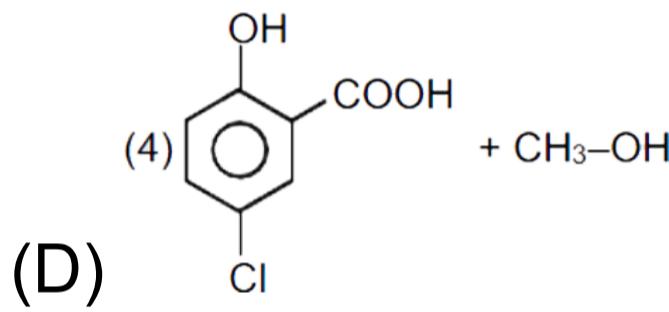
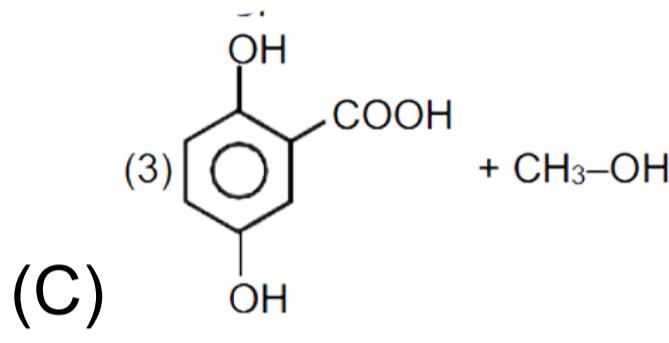
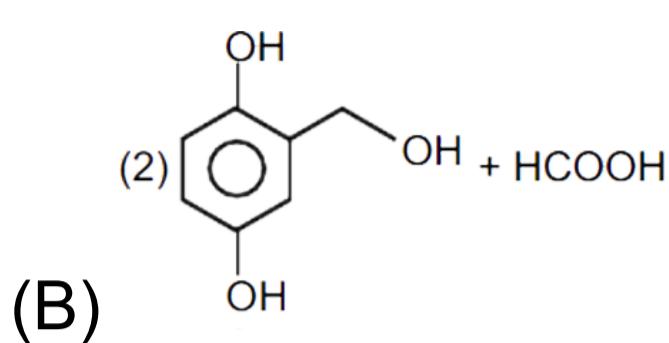
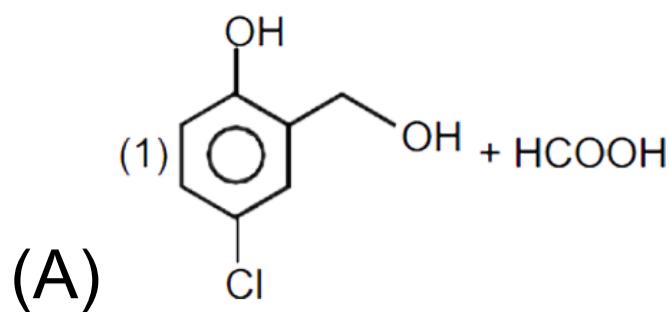
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The correct product is:



CORRECT OPTION: A

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MEMORY BASED - CHEMISTRY**

Which of the following statement is incorrect for RNA?

- (A) it is synthesized in nucleus.

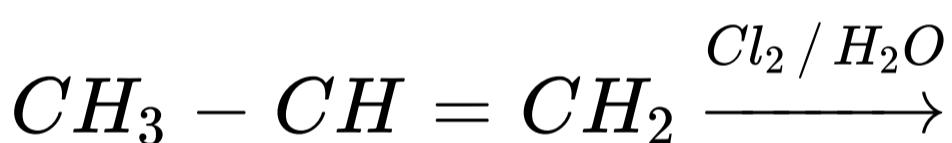
- (B) it helps in protein synthesis
- (C) it has double helix like structure
- (D) it carries the genetic information.

CORRECT OPTION: C

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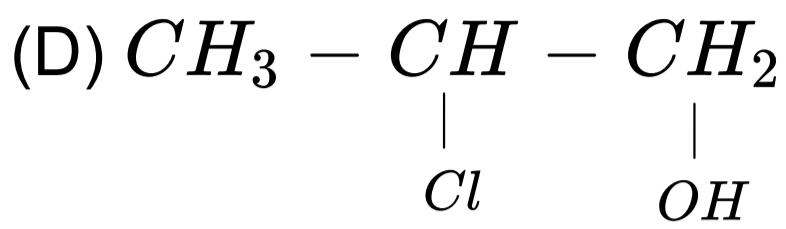
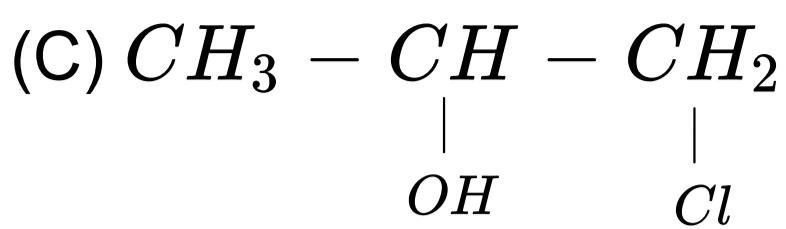
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MEMORY BASED - CHEMISTRY**



The correct product is

- (A) $CH_3 - CH - CH_2$
 | |
 OH OH
 O
 ||
- (B) $CH_3 - C - CH_3$



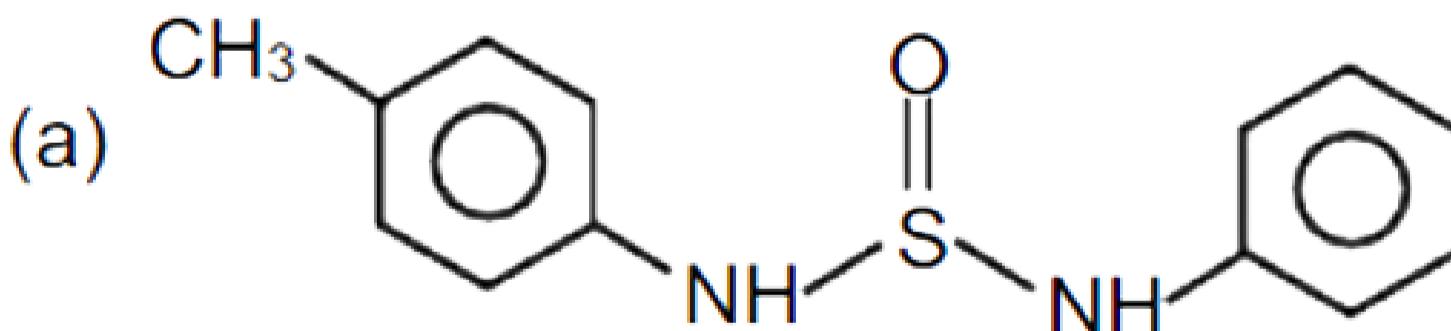
CORRECT OPTION: C

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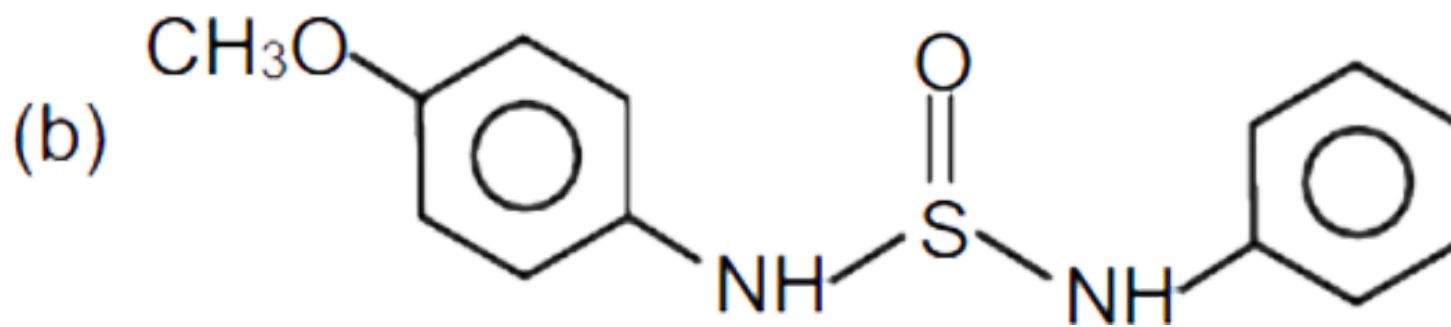
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MEMORY BASED - CHEMISTRY**

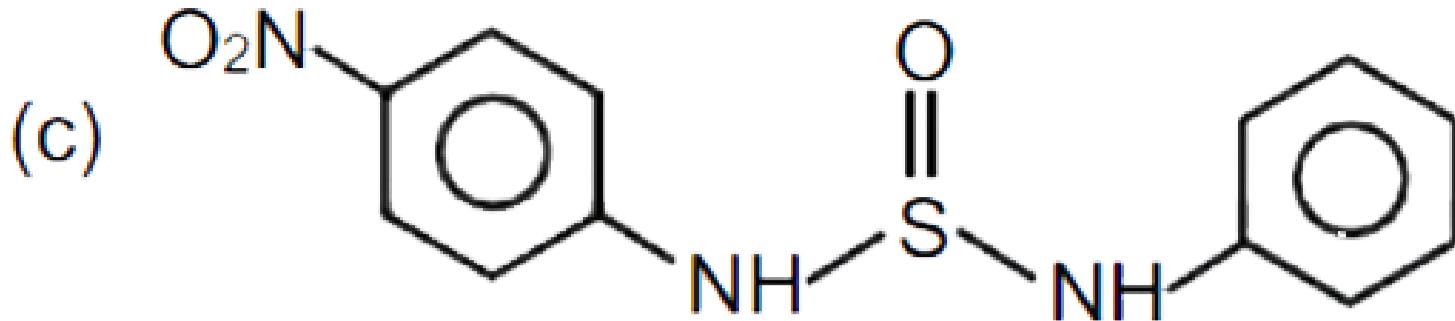
Arrange the following compounds in their increasing pK_b order:



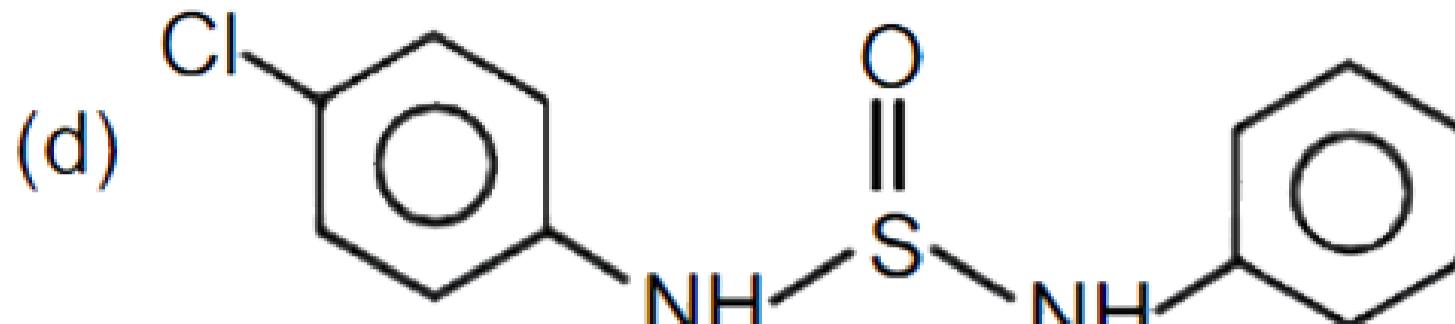
(a).



(b).



(c).



(d).

(A) $c < d < a < b$

(B) $b < a < d < c$

(C) $d < b < a < c$

(D) $a < b < d < c$

CORRECT OPTION: B

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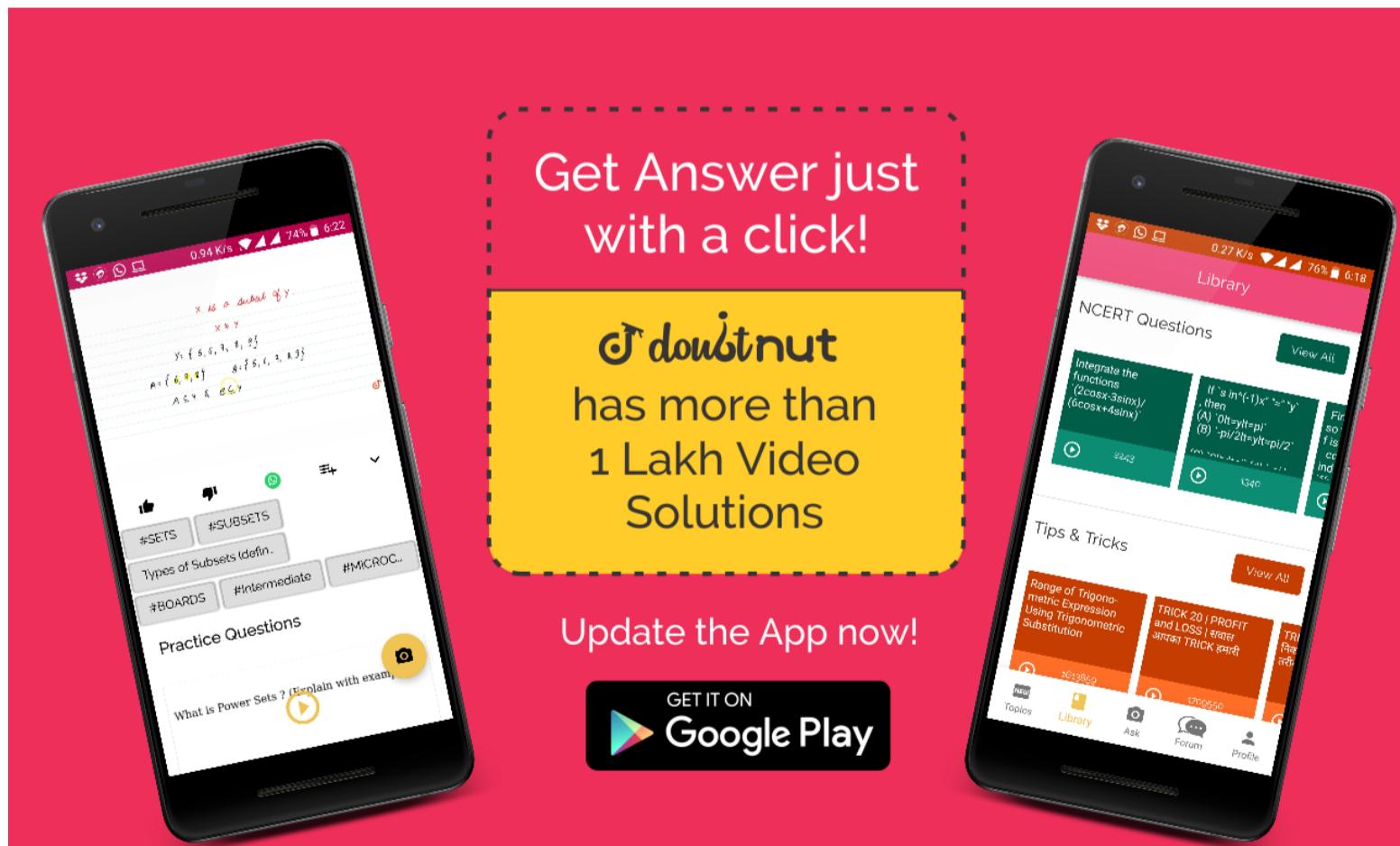
Which of the following cause photochemical smog?

- (A) N_2 , O_3 , NO_2 hydrocarbon
- (B) N_2 , SO_2 , O_2 hydrocarbon
- (C) NO , NO_2 , O_3 , hydrocarbon
- (D) NO , CO_2 , N_2 , hydrocarbon

CORRECT OPTION: C

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Glucose and galactose differs on which carbon atom.

- (A) 2nd carbon atom
- (B) 3rd carbon atom
- (C) 4th carbon atom
- (D) 5th carbon atom

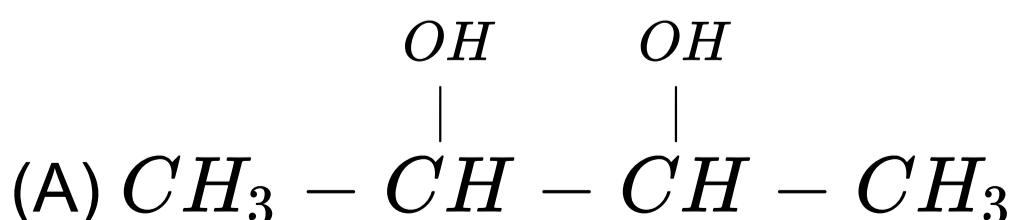
CORRECT OPTION: C

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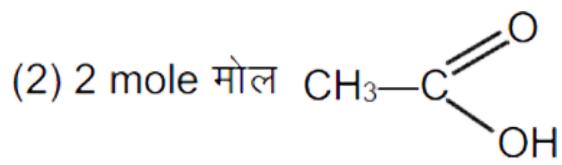
9 - 9677652

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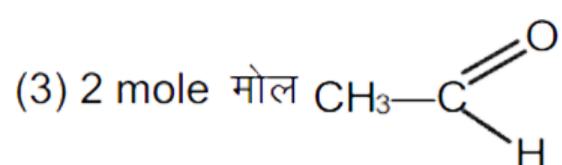
Which of the following is formed when 2 butene is treated with alkaline $KMnO_4$ higher temperature



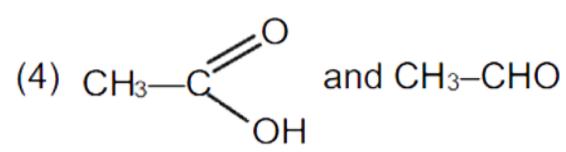
(B) 2 mole



(C) 2 mole



(D)



and $\text{CH}_3 - \text{CHO}$

CORRECT OPTION: B

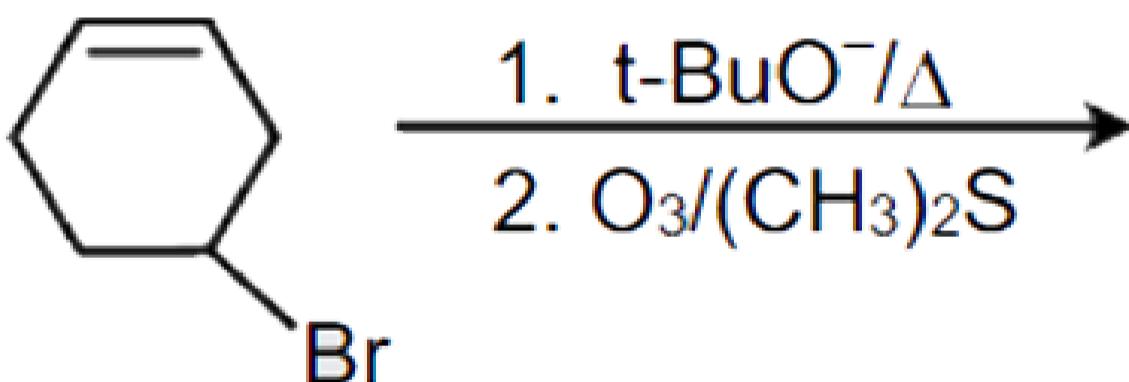
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10.

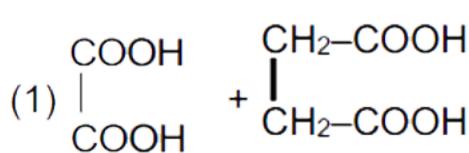


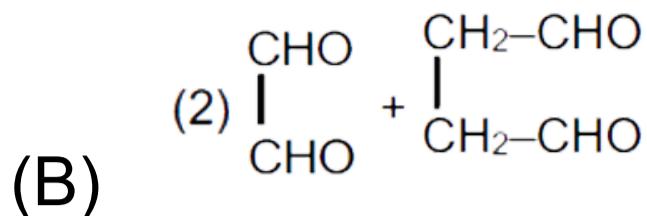
$1. t\text{-BuO}^- / \Delta$

$\xrightarrow{2. \text{O}_3 / (\text{CH}_3)_2\text{S}}$

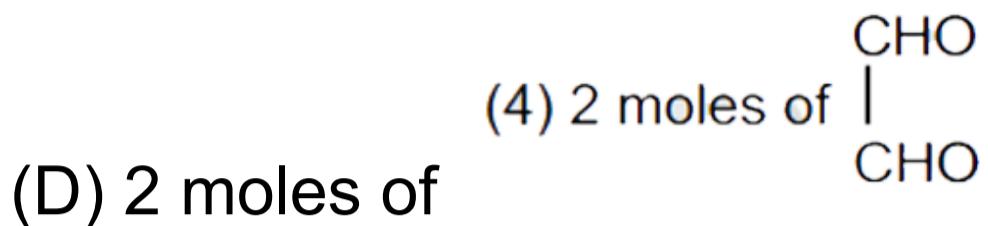
Major products of the reaction

(A)





(C) 2 moles of $\text{HOOC} - \text{CH}_2 - \text{COOH}$



CORRECT OPTION: B

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

A compound X react with Na_2O_2 and forms Y , Y is reacted with nitric acid and then treated with ammonium molybdate to give yellow ppt.

(A) Phosphorus

(B) Nitrogen

(C) Fluorine

(D) Sulphur

CORRECT OPTION: A

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

What will be the work done for expansion of a gas from 1 lit
to 10 lit volume against constant pressure of 1 bar?

(A) $+9KJ$

(B) $-9KJ$

(C) $+0.9KJ$

(D) $-0.9KJ$

CORRECT OPTION: D

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JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 - MEMORY BASED - CHEMISTRY

In a F.C.C arrangement edge length of unit cell is a , which of the following is correct distance between two nearest tetrahedral voids?

13 - 9677656
(A) $\sqrt{2}a$

(B) $\frac{a}{\sqrt{2}}$

(C) a

(D) $\frac{a}{2}$

CORRECT OPTION: D

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Observe the following processes given along with standard electrode potentials:

- (A) $Ce^{+4} + e^- \rightarrow Ce^{+3}, E^\circ = 1.61V$
- (B) $Co^{+3} + e^- \rightarrow Co^{+2}, E^\circ = 1.97V$
- (C) $Bi^{+33} + 3e^- \rightarrow Bi(s), E^\circ = 0.31V$
- (D) $Pb^{+4} + 2e^- \rightarrow Pb^{+2}, E^\circ = 1.8V$

CORRECT OPTION: D

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
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Mole fraction of solvent in an aqueous solution is 0.8. What is the molality of this solution in mol/kg?

(A) 55.55

(B) 13.88

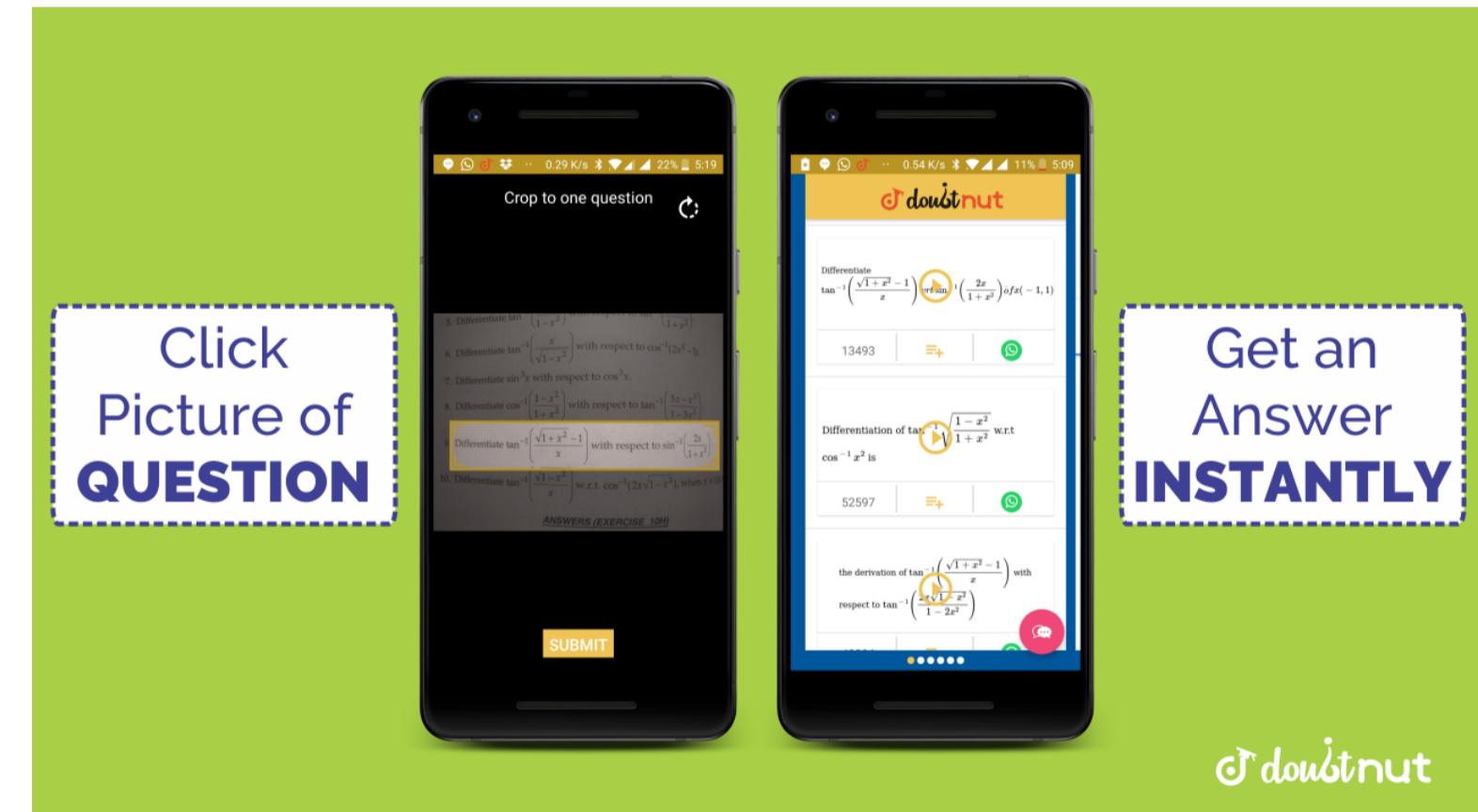
(C) 27.77

(D) 6.94

CORRECT OPTION: B

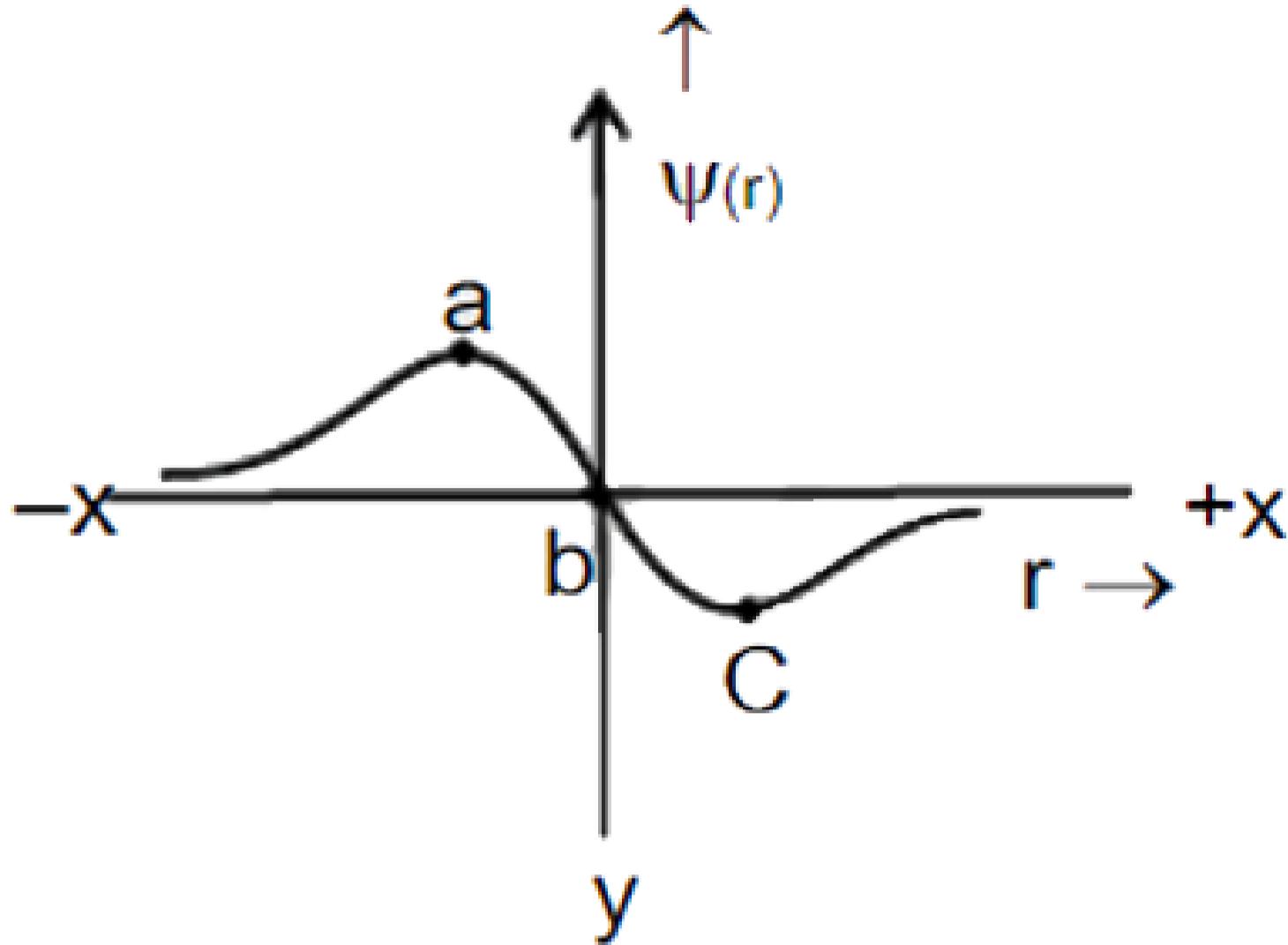
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In the following curve, at which points probability of finding electron is maximum?

- (A) a,c
- (B) only a
- (C) only c
- (D) a,b

CORRECT OPTION: A

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MEMORY BASED - CHEMISTRY**

Which of the following is an example of disproportionation reaction?

- (A) $2CuBr \rightarrow CuBr_2 + Cu$
- (B) $KMnO_4 \rightarrow K_2MnO_4 + MnO_2 + O_2$
- (C) $MnO_4^- \rightarrow JMnO_2 + Mn^{2+}$
- (D) $Cl^- + ClO_3^- \rightarrow Cl_2$

CORRECT OPTION: A

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MEMORY BASED - CHEMISTRY**

Peptization is:

- (A) formation of colloid from precipitate
 - (B) formation fo precipitate from colloid
 - (C) formation fo colloid from solution
 - (D) addition of colloid in solvent
-

CORRECT OPTION: A

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If mass of 5 mole AB_2 is $125 \times 10^{-3} kg$ and mass of 10 mole A_2B_2 is $300 \times 10^{-3} kg$. Then correct molar mass of A and B respectively (in kg/mol):

- (A) $A = 5 \times 10^{-3}$ & $B = 25 \times 10^{-3}$
- (B) $A = 2.5 \times 10^{-3}$ & $B = 5 \times 10^{-3}$

(C) $A = 2.5 \times 10^{-3}$ & $B = 10 \times 10$

(D) $A = 5 \times 10^{-3}$ & $B = 10 \times 10^{-3}$

CORRECT OPTION: A

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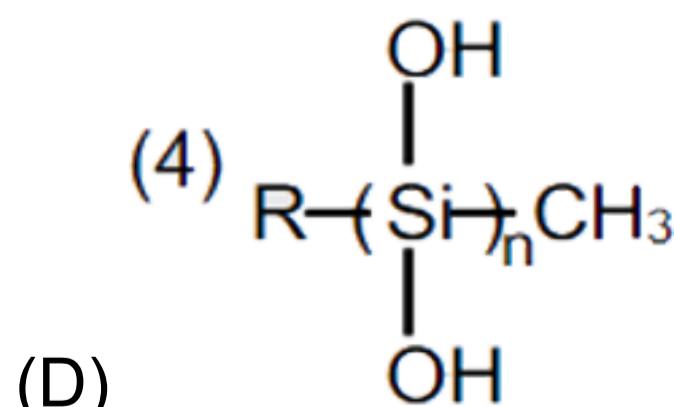
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MEMORY BASED - CHEMISTRY**

Basic unit fo zeolite, mica, asbestos and feldpar is

(A) SiO_4^{4-}

(B) SiO_2^{4-}

(C) SiO_3^{2-}



CORRECT OPTION: A

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What is the solubility of $Al(OH)_3$ in the presence of 0.2M

$$NaOH \left[(K_{sp})_{Al(OH)_3} = 2.4 \times 10^{-24} \right]$$

(A) $3 \times 10^{-20} M$

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(B) 3×10^{-22}

(C) 8×10^{-12}

(D) $2 \times 10^{-8} M$

CORRECT OPTION: B

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Enthalpy of sublimation of $I_2(s)$ at $200^\circ C$ is 24J/gm and specific heat of I_2 (vapor) and $I_2(s)$ are 0.013 J/gm-k and 0.045 J/gm-k respectively then enthalpy of sublimation of $I_2(s)$ at $250^\circ C$ is:

- (A) 22.4 J/gm
- (B) 13.4J/gm
- (C) 11.2J/gm
- (D) 5.6J/gm

CORRECT OPTION: A

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

Which of the following metal will release H_2 gas on reaction with both acid as well as base separately

(A) Mg

(B) Zn

(C) Fe

(D) Pt

CORRECT OPTION: B

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

A person X discovered froath flotation method which is a type of process Y in metallurgy. Then X and Y are respectively.

- (A) Fisherman, reduction
- (B) Washerman, reduction
- (C) Fisherwoman, concentration
- (D) Washerwoman, concentration

CORRECT OPTION: D

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

What is the correct order of thermal stability of carbonates of alkaline earth metals?

(A)



(B)



(C)



(D)



CORRECT OPTION: B

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**JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 -
MEMORY BASED - CHEMISTRY**

From an octahedral splitting arrangement if two ligands present along Z-axis are removed then what will be the correct order of energy for 5d-orbitals of central metal?

(A) $d_{x^2-y^2} > d_{xy} > d_{z^2} > d_{xz} = d_{yz}$

(B) $d_{xy} > d(x^2 - y^2) > d_{z^2} > d_{xz} > d_{yz}$

(C) $d_{z^2} > d_{xz} = d_{yz} > d_{xy} > d_{x^2 - y^2}$

(D) $d_{x^2 - y^2} = d_{z^2} > d_{xy} = d_{yz} = d_{xz}$

CORRECT OPTION: A

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JEE MAINS 12 APRIL 2019 - PAPER 1 SHIFT 1 - MEMORY BASED - CHEMISTRY

Which of the following is correct statement regarding $N(CH_3)_3$ and $N(SiH_3)_3$?

(A) $N(SiH_3)_3$ is planar and more basic than $N(CH_3)_3$

(B) $N(SiH_3)_3$ is planar and less basic than $N(CH_3)_3$

(C) $N(CH_3)_3$ is planar and more basic than $N(SiH_3)_3$

(D) $N(CH_3)_3$ is pyramidal and less basic than $N(SiH_3)_3$

CORRECT OPTION: B

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An element have atomic number 15, its valence electrons group number and valency are respectively

- (A) 5,15,3
- (B) 6,15,3
- (C) 15,6,3
- (D) 6,16,4

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CORRECT OPTION: A

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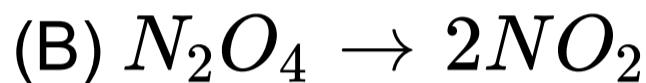
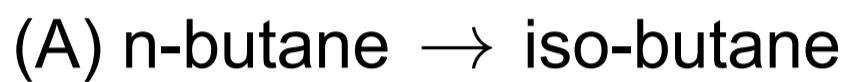
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For $xA \rightarrow yB$

$$\log\left(\frac{d[A]}{dt}\right) = \log\left(-\frac{d[B]}{dt}\right) + 0.3010$$

Which of the following reaction given relation is true?



CORRECT OPTION: C

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