SHIKSHA NATION

JEE Main 2026 (Answer Key)
21 Jan (Shift 1)

CLASS IX

CHEMISTRY

By: Pragati Ma'am

Overall Difficulty

Sr. No.	Subject(s)	Difficulty Level
1.	PHYSICS	Moderate - Difficult
2.	CHEMISTRY	Moderate
4.	MATHS	Moderate (Lengthy)
	Overall	Moderate

How was the Maths Paper?

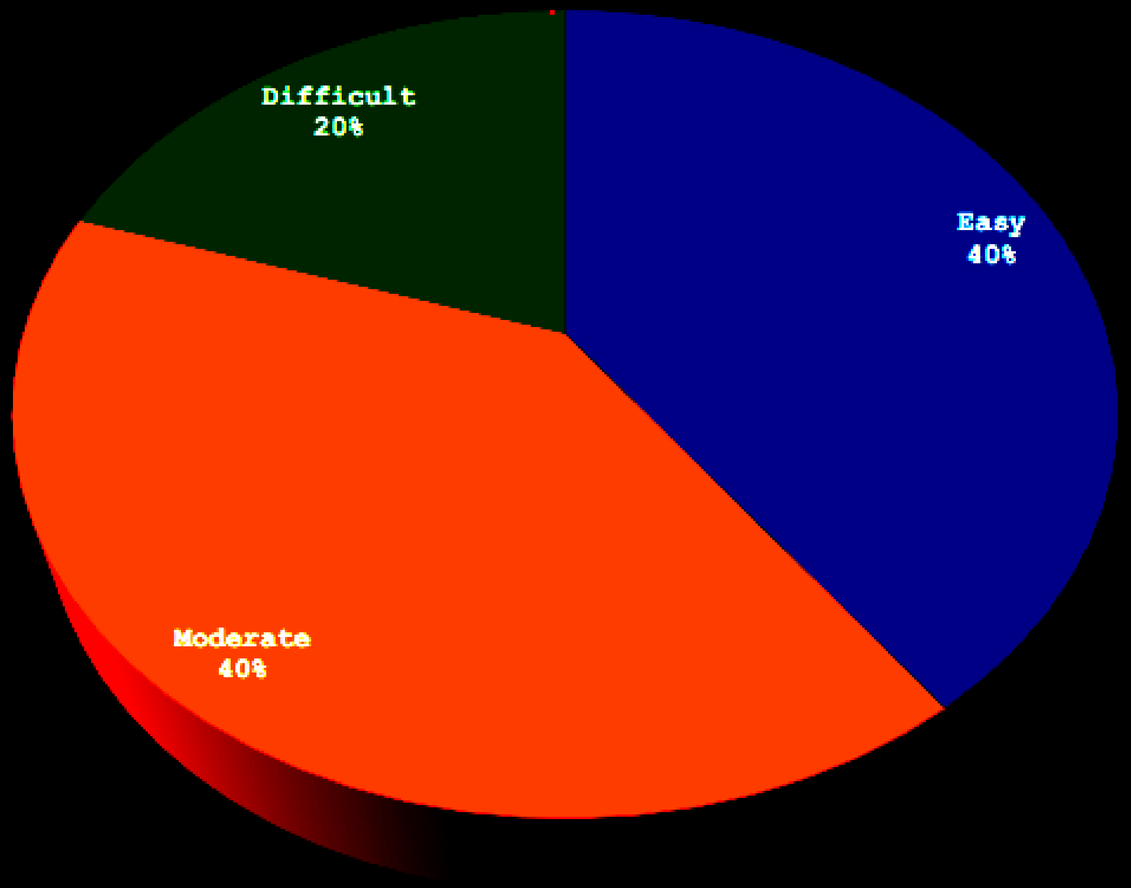
A. Easy - 5

B. Moderate - 4

C. Moderate but Lengthy - 3

D. Difficult – 2

E. Very Difficult - 1


Difficult
20%
Easy
40%
Moderate
40%

Math's

Chapter	Weightage	Chapter	Weightage
Sets and Relations	4.4%	Straight Lines and Pair of Straight Lines	3.6%
Logarithm	0.4%	Circle	2.4%
Quadratic Equation and Inequalities	3.2%	Parabola	4%
Sequences and Series	5.2%	Ellipse	3.2%
Binomial Theorem	4.4%	Hyperbola	0.8%
Matrices and Determinants	7.6%	Functions	3.2%
Permutations and Combinations	5.2%	Limits, Continuity and Differentiability	5.2%
Probability	4.8%	Differentiation	0.4%
Vector Algebra	5.6%	Application of Derivatives	2.4%
3D Geometry	6.4%	Indefinite Integrals	2%
Complex Numbers	4%	Definite Integration	4.8%
Statistics	1.6%	Area Under The Curves	4%
Trigonometric Ratio and Identities	1.6%	Differential Equations	5.6%
Inverse Trigonometric Functions	2.8%		

How was the Physics Paper?

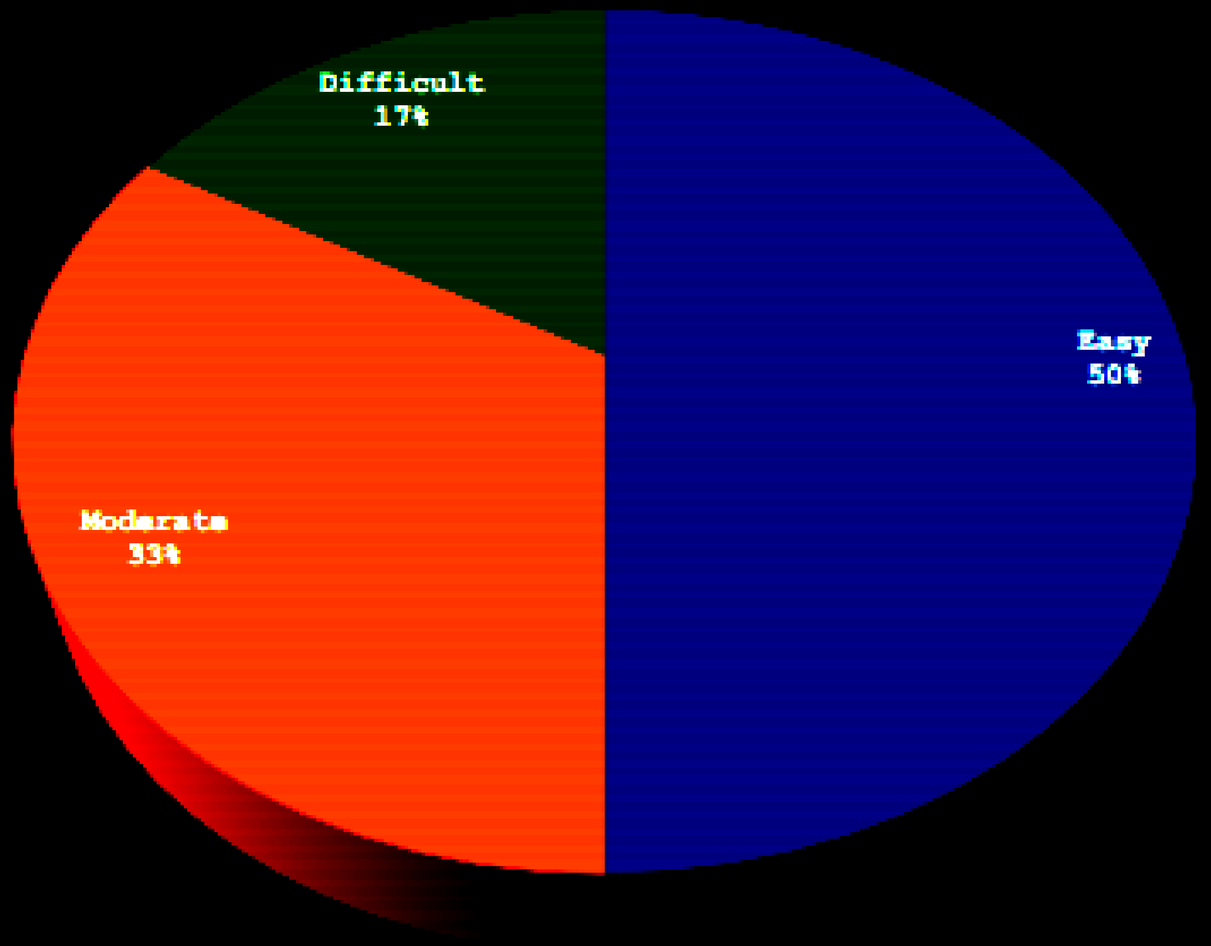
A. Easy - 5

B. Moderate - 4

C. Moderate but Lengthy - 3

D. Difficult – 2

E. Very Difficult - 1


Difficult
17%
Easy
50%
Moderate
33%

Physics

Chapter	Weightage	Chapter	Weightage
Current Electricity	8%	Semiconductor	3.67%
Heat and Thermodynamics	7.33%	Rotational Motion	3.33%
Properties of Matter	7%	Work Power & Energy	3.17%
Atoms and Nuclei	6.67%	Electromagnetic Induction	2.83%
Units & Measurements	5.50%	Motion in a Straight Line	2.67%
Electrostatics	5.33%	Simple Harmonic Motion	2.50%
Magnetic Effect of Current	5.17%	Electromagnetic Waves	2.50%
Alternating Current	4.33%	Geometrical Optics	2.50%
Laws of Motion	4%	Capacitor	2.33%
Gravitation	4%	Circular Motion	1.83%
Wave Optics	3.83%	Center of Mass and Collision	1.67%
Dual Nature of Radiation	3.83%	Waves	1.50%

How was the Chemistry Paper?

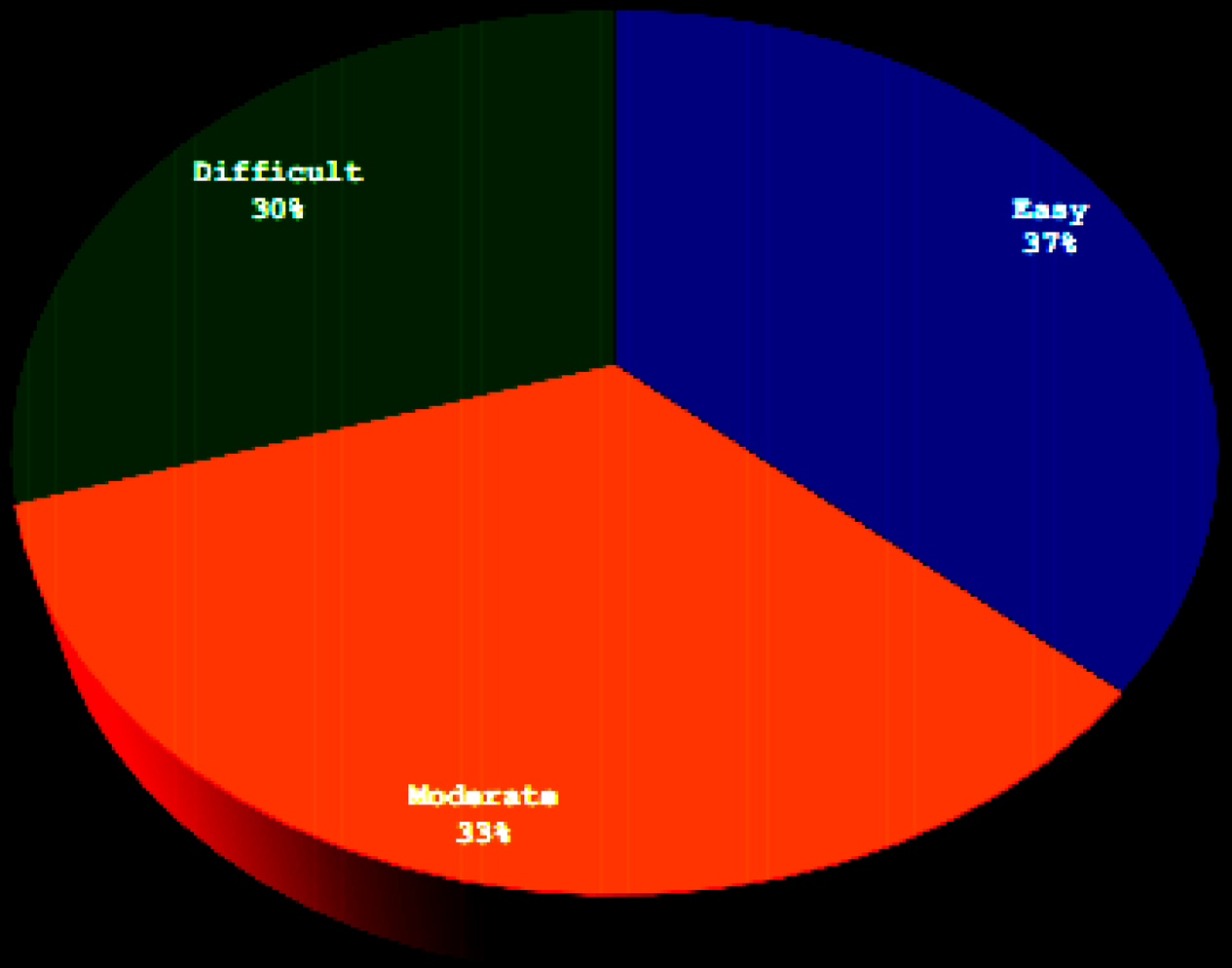
A. Easy - 5

B. Moderate - 4

C. Moderate but Lengthy - 3

D. Difficult – 2

E. Very Difficult - 1


Difficult
30%
Easy
37%
Moderate
33%

Chemistry Analysis

Chapter	Weightage	Chapter	Weightage
Some Basic Concepts of Chemistry	5.2 %	d and f Block Elements	5.2 %
Structure of Atom	4.4 %	Coordination Compounds	7.2 %
Redox Reactions	2.4 %	Salt Analysis	2 %
Chemical Equilibrium	2.4 %	Basics of Organic Chemistry	6.8 %
Ionic Equilibrium	3.2 %	Hydrocarbons	5.2 %
Solutions	3.6 %	Haloalkanes and Haloarenes	4.4 %
Thermodynamics	6.8 %	Alcohols, Phenols and Ethers	2 %
Electrochemistry	5.6 %	Aldehydes, Ketones and Carboxylic Acids	5.6 %
Chemical Kinetics and Nuclear Chemistry	5.2 %	Compounds Containing Nitrogen	5.2 %
Periodic Table & Periodicity	6 %	Biomolecules	4.4 %
Chemical Bonding & Molecular Structure	4 %	Practical Organic Chemistry	1.2 %
p-Block Elements	1.6 %		

Q. 14.0 g of calcium metal is allowed to react with excess HCl at 1.0 atm pressure & 273 K. Which of the following statement is incorrect ?
(Molar Mass in g mol^{-1} $Ca = 40, Cl = 35.5$)

(a) 0.35 mol of H_2 gas is evolved.

(b) The limiting reagent is calcium metal.

(c) 33.3g of $CaCl_2$ is produced.

(d) 7.84 L of H_2 gas is evolved.

Q. In Carius method, 0.75 g of an organic compound gave 1.2 g of barium sulphate,
Find % of sulphur (molar mass $32 g\ mol^{-1}$.)
Molar mass of barium sulphate is $233\ mol^{-1}$

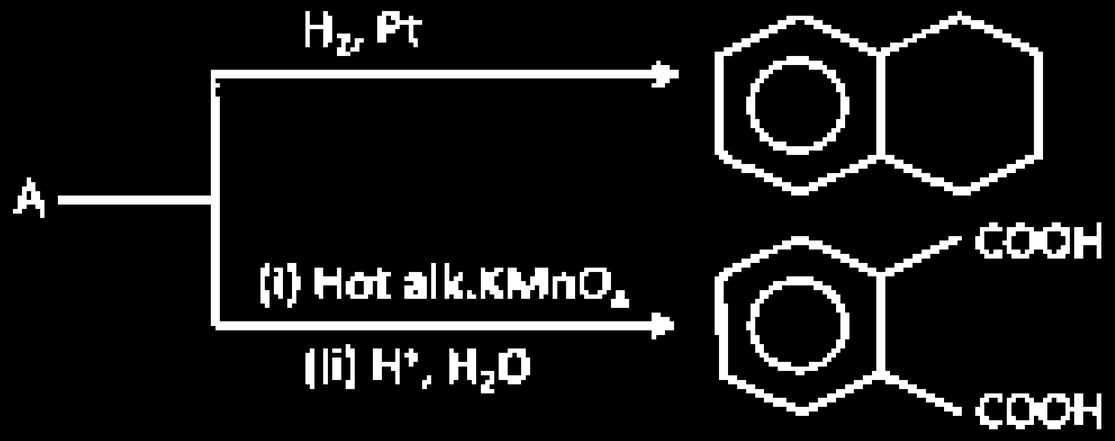
(A) 16.48%

B) 4.55%

C) 21.97%

D) 10.30%

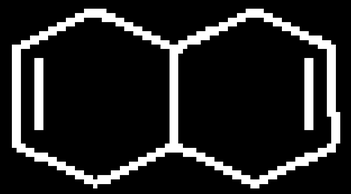
Q.



Which of the following is A :

1 

2 

3 

4 

Q. $6\int_0^{\pi} |\sin 3x + \sin 2x + \sin x|\, dx =$

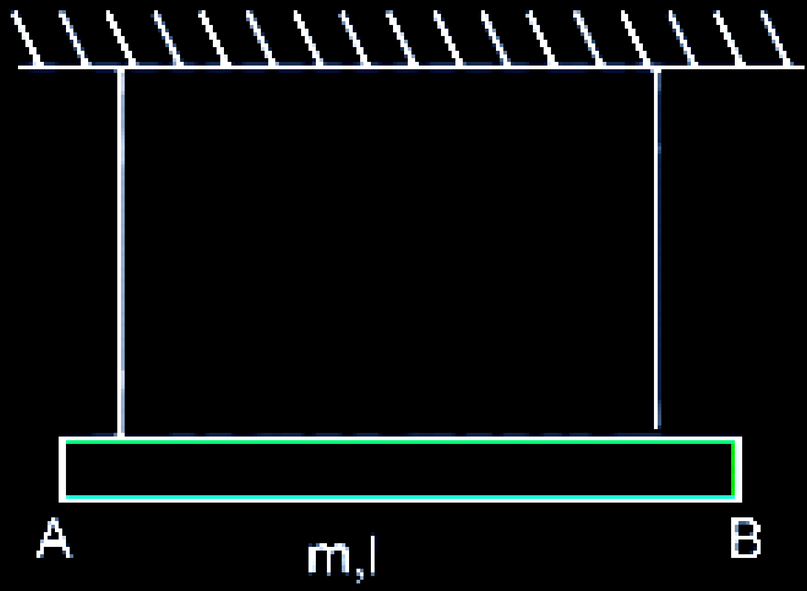
Q. $\text{cosec}10^\circ - \sqrt{3}\sec 10^\circ =$

a) 8
b) 6
c) 4
d) 2

Q. The number of relations, defined on the set $\{a, b, c, d\}$ which are both reflexive & symmetric is equal to

A) 16
B) 1024
C) 64
D) 256

Q. A rod of mass m and length l is attached to two ideal strings, find tension in left string just after right string is cut.



Q. The Hyperbola and ellipse $\frac{x^2}{36}+\frac{y^2}{16}=1$ have same foci and eccentricity of Hyperbola is 5 then length of latus rectum of hyperbola is

Q. For some $\alpha, \beta \in R$ let $A = \begin{bmatrix} \alpha & 2 \\ 1 & 2 \end{bmatrix}$ & $B = \begin{bmatrix} 1 & 1 \\ 1 & \beta \end{bmatrix}$ be such that $A^2 - 4A + 2I = B^2 - 3B + I = 0$ then $\left(\det\left(\text{adj}(A^3 - B^3)\right)\right)^2$ is equals to

Q. A conducting circular loop of area is placed Perpendicular to a magnetic field which varies as tesla. If the resistance of the they average thermal energy dissipated in the loop in one period is

Q. $x^2 + x + 1 = 0$, value of $\left(x + \frac{1}{x}\right)^4 + \left(x^2 + \frac{1}{x^2}\right)^4 + \left(x^3 + \frac{1}{x^3}\right)^4 + \cdots + \left(x^{25} + \frac{1}{x^{25}}\right)^4$ is

A) 175
B) 162
C) 145
D) 128

Q. A current carrying solenoid is placed vertically and a particle of mass m with charge Q is released from rest. The particle moves along the axis of solenoid. If g is acc due to gravity than the acc of the charge particle.

a.a=g

b.a=0

c.0<a<g

d.a>g

Q. Which logic gate is given in the figure?

a. XOR

b. NOR

c. NAND

d. OR

Q. In a double slit experiment the distance b/w the Slits 0.1cm and the screen is placed at 50 cm from the slit plane. when one slit is covered with a transparent sheet having thicknes t and refrective index n=1.5 the central fringe shifs by 0.2 cm . The value of t is

Q. Which logic gate is given in the figure?

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b. NOR

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d. OR

Q. Find dimensions of $\frac{A}{B}$ if $\left(P + \frac{At^2}{B}\right) + \frac{1}{2}\rho V^2 = \text{constant}$, where $P \rightarrow$ pressure, $\rho \rightarrow$ density, $V \rightarrow$ speed.

a) $\mathrm{ML^1\,T^{-4}}$

b) $\mathrm{ML^{-1}\,T^{-4}}$

c) $\mathrm{ML^2\,T^{-4}}$

d) $\mathrm{ML^{-1}\,T^{-2}}$

Q. Given below are two statements.

Statement I : Arginine and Tryptophan are essential amino acids.

Statement II: Glycine does not have any chiral carbon.

In the light of the above statements, which is the correct option.

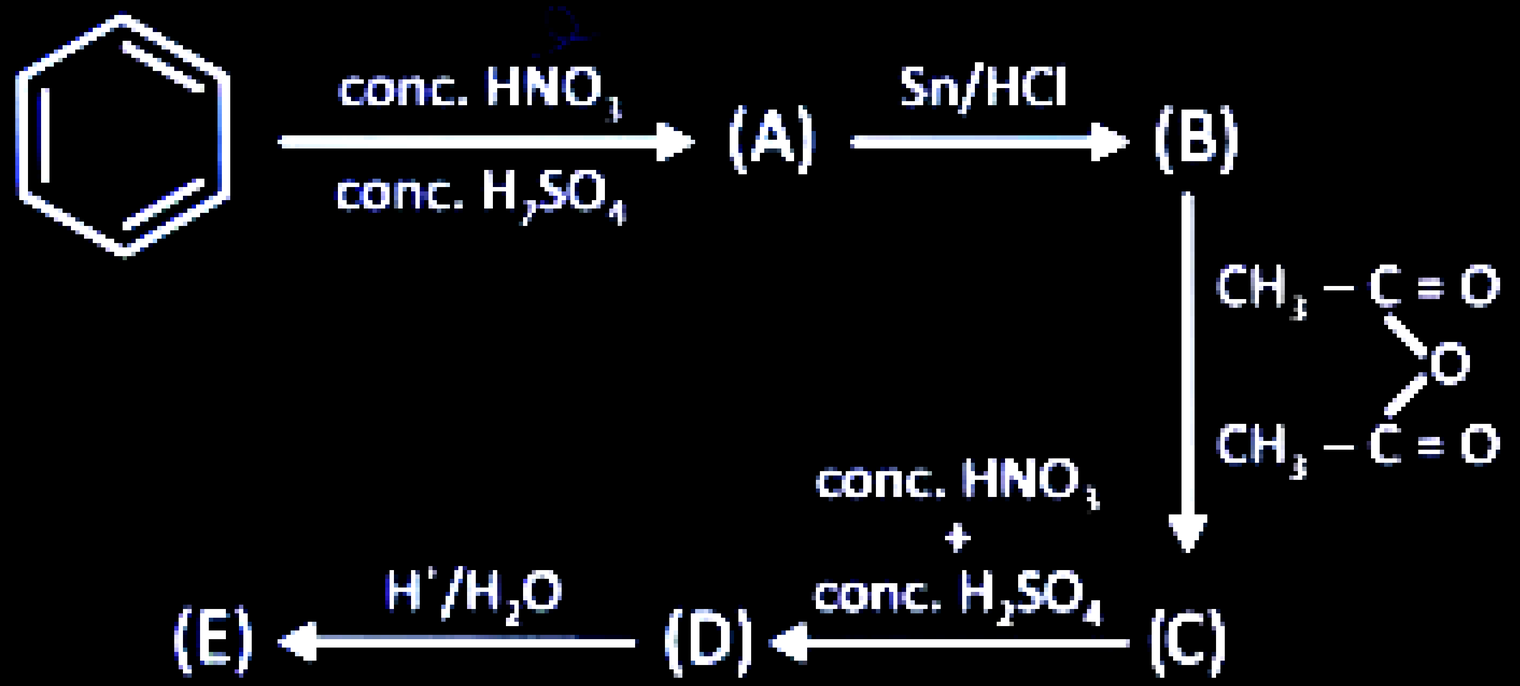
a) Both statement-I and statement-II are correct

b) Both statement-I and statement-II are incorrect

c) Statement-I is correct and statement-II is incorrect

d) Statement-I is incorrect and statement-II is correct

Q.


conc. HNO3
conc. H2SO4
(A)
Sn/HCl
(B)
CH3 – C = O
O
CH3 – C = O
conc. HNO3
+
conc. H2SO4
(C)
(D)
H+/H2O
(E)

% of N in E = ?

Q. A light wave described by $E=60(\sin(3\times10^{15})t+\sin(12\times10^{15})t)$ (in SI unit), fall on a metal surface of work function 2.8 ev. The maximum KE of ejected photo electron is approximate (in ev)

$h= 6.6\times10^{-34}$ Js

a. 7.8

b. 6.0

c. 3.8

d. 5.6

Q. MnO_4^{2-} **in acidic medium, disproportionates to**

A) Mn_2O_7 **&** **MnO**

B) MnO_4^- **&** **MnO**

C) MnO_4^- **&** MnO_4

D) MnO_4^- **&** MnO_2

Q. Which of the following is the correct order with respect to the property indicated?

a) Cl > F (Ionisation energy)

b) $K_2O > Na_2O > Al_2O_3$ (Basic nature)

c) K > Na > Al > Mg (Metallic character)

d) None of these

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Thank You