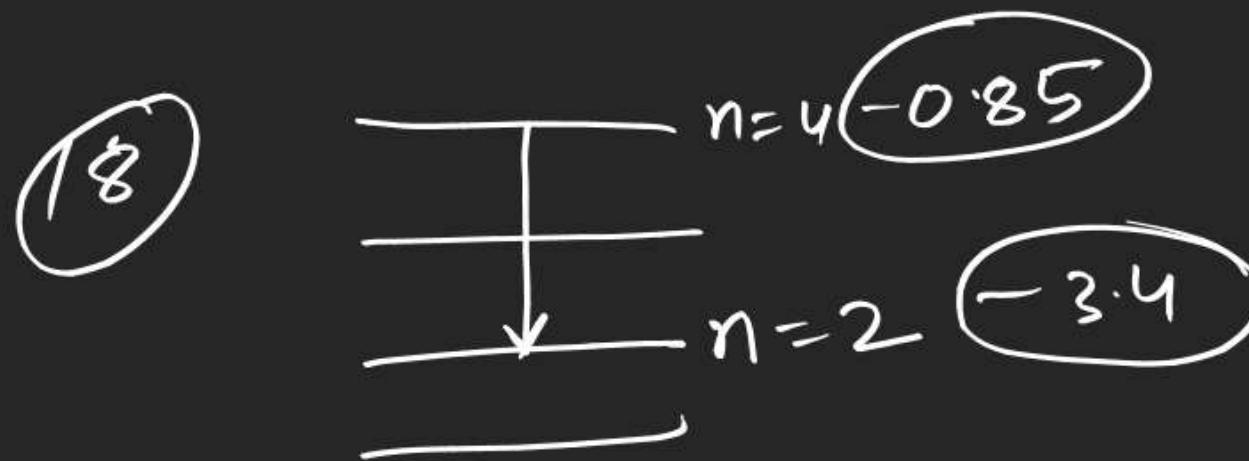
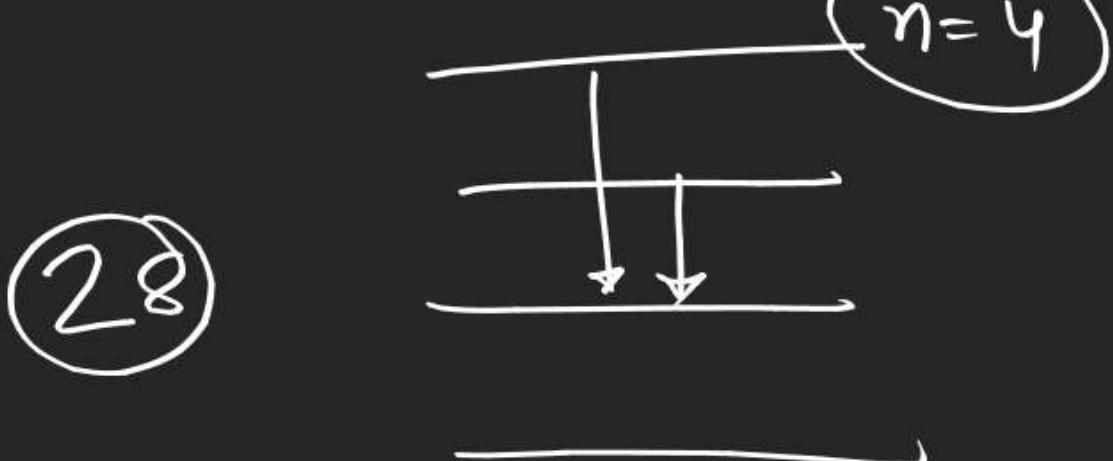


Nishant Jindal	Jee Main Selected PYQS-2	Tuesday, 2 January 2024
	Live Class	Wednesday, 3 January 2024
Thermochemistry	Notes + Jee Main Selected PYQS-2	Thursday, 4 January 2024
Mole concept	Notes + Jee Main Selected PYQS-2	Friday, 5 January 2024
Concentration Terms	Notes + Jee Main Selected PYQS-2	Saturday, 6 January 2024
		Sunday, 7 January 2024
Chemical Kinetics	Notes + revision of questions from score 1	Monday, 8 January 2024
	Jee Main Selected PYQS-2	Tuesday, 9 January 2024
	Live Class	Wednesday, 10 January 2024
Chemical Equilibrium	Notes + Jee Main Selected PYQS-2	Thursday, 11 January 2024
Ionic Equilibrium	Notes + revision of questions from score 1	Friday, 12 January 2024
	Jee Main Selected PYQS-2	Saturday, 13 January 2024
		Sunday, 14 January 2024
Redox Reactions	Notes + Jee Main Selected PYQS-2	Monday, 15 January 2024
Electrochemistry	Notes + revision of questions from score 1	Tuesday, 16 January 2024
	Live Class	Wednesday, 17 January 2024
	Jee Main Selected PYQS-2	Thursday, 18 January 2024
Liquid Solution	Notes + Jee Main Selected PYQS-2	Friday, 19 January 2024
Atomic structure	Notes + Jee Main Selected PYQS-2	Saturday, 20 January 2024
		Sunday, 21 January 2024

Atomic spectrum 6-I

$$\textcircled{40} \quad 13.6 \times 9 - 13.6 \\ = 13.6 \times 8 \text{ eV}$$

$$\lambda = \sqrt{\frac{150}{\nu}}$$



$$\textcircled{25} \quad \frac{1}{x} = R_H \times 4 \left[\frac{1}{2^2} - \frac{1}{\infty} \right]$$

$$\frac{1}{y} = R_H \times 9 \left[\frac{1}{3^2} - \frac{1}{4^2} \right]$$

$$\textcircled{31} \quad 6 \longrightarrow 2$$

$\textcircled{41}_{C_2}$

$$\Delta V = 300 \times \frac{0.001}{100} \text{ m/sec}$$

$$\Delta x \cdot \Delta v = \frac{\hbar}{4\pi m} = \frac{\hbar}{2m}$$

$$\frac{\hbar}{2\pi} = \hbar$$

$$dx \cdot dp = \frac{\hbar}{4\pi}$$

$$dx \cdot \frac{\hbar}{\lambda^2} d\lambda = \frac{\hbar}{4\pi}$$

$$\lambda = \sqrt{\frac{150}{6}} = 5 \text{ Å}^\circ$$

(47)

$$\lambda = \frac{h}{\sqrt{2mKE}}$$

$$\lambda^2 = \frac{h^2}{2mKE}$$

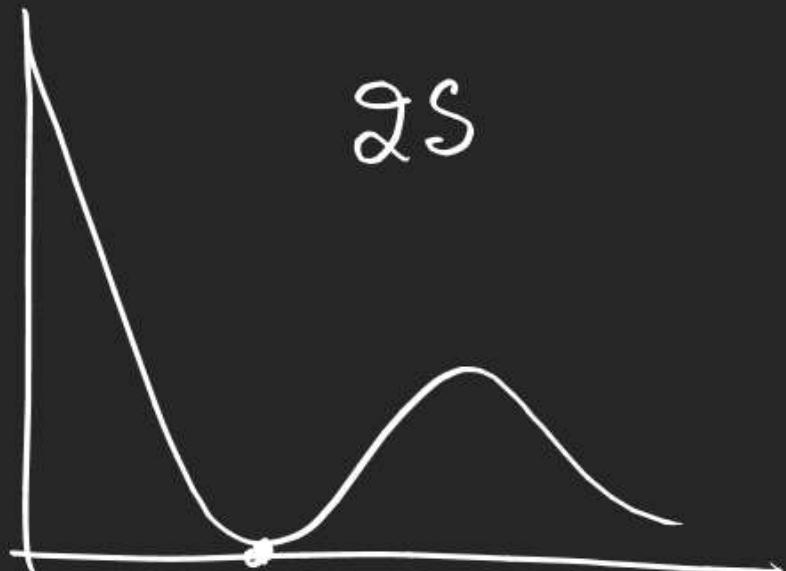
$$|TE| = KE = \frac{h^2}{2m\lambda^2}$$

$$\frac{hc}{\lambda} = KE_2 - KE_1 = \frac{h^2}{2m} \left(\frac{1}{\lambda_2^2} - \frac{1}{\lambda_1^2} \right)$$

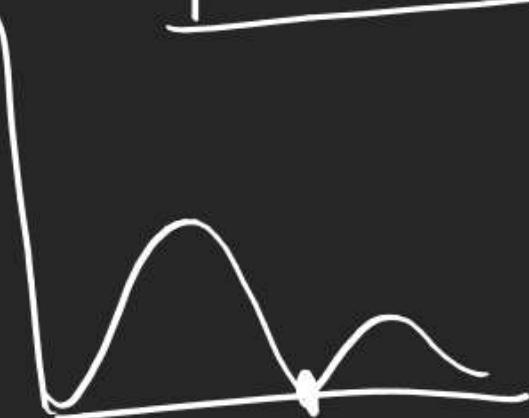
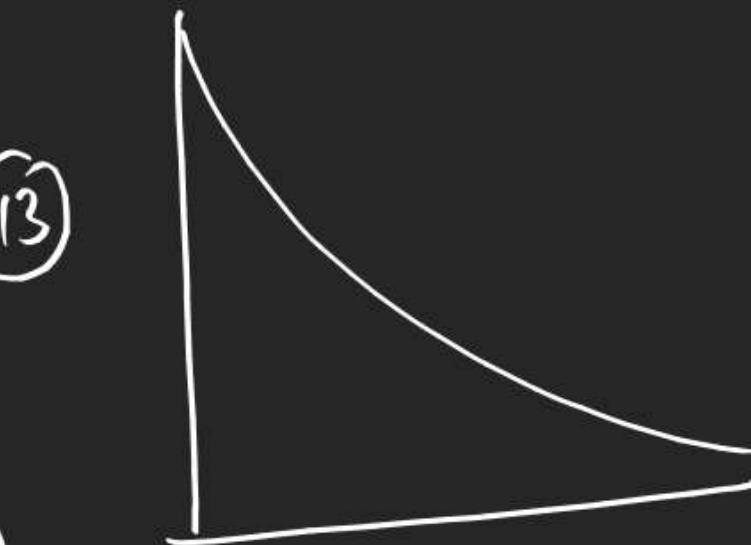
(12)

$$R^2$$

(C)



(13)



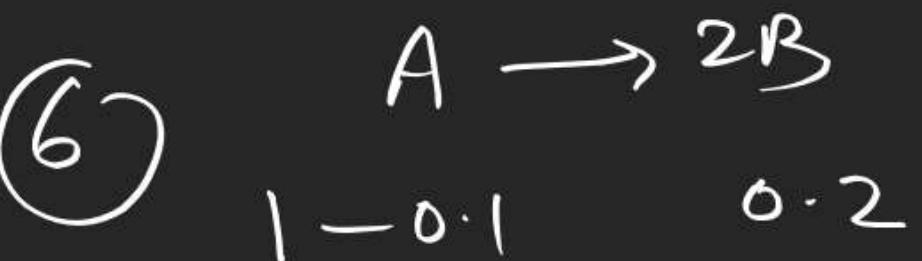
$$\frac{dc}{dt} = \frac{10}{10} = 1 \text{ mmol/lit/sec}$$

$$g = \frac{d[D]}{dt} = \frac{3}{2} \times \left(-\frac{d[B]}{dt} \right)$$

$$-\frac{d[B]}{dt} = 2 \left(-\frac{d[A]}{dt} \right)$$

$$-\frac{d[B]}{dt} = 6$$

$$-\frac{d[A]}{dt} = 3$$



$$k = \frac{1}{100} \ln \frac{1}{0.9} = \frac{\ln 2}{t_{1/2}}$$

15 $K_c = \frac{k_f}{k_b} = \frac{4.8 \times 10^{-8} / 10^{-2}}{2.1 \times 10^{-3}}$