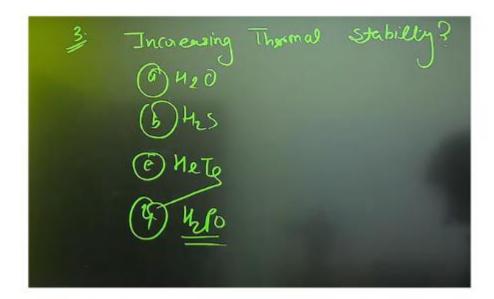
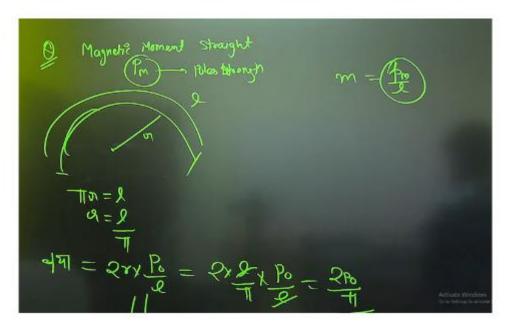
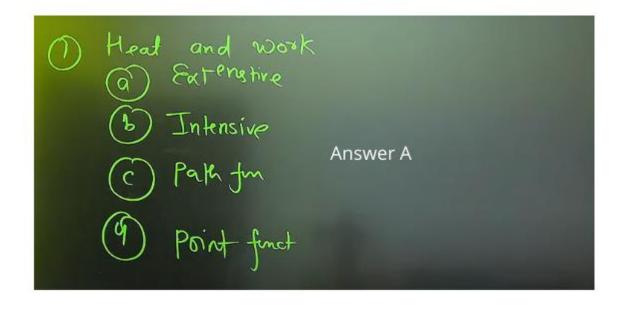
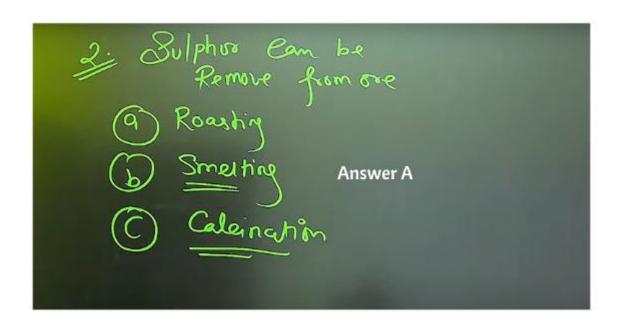
JEE Main 16 March 2021 Shift 1 Memory-Based Questions – CollegeDekho, Vedantu, Grade Up





3: $\lambda_1, \lambda_2, \lambda_3$ —3 Balmer sing $\lambda_1 = 3$





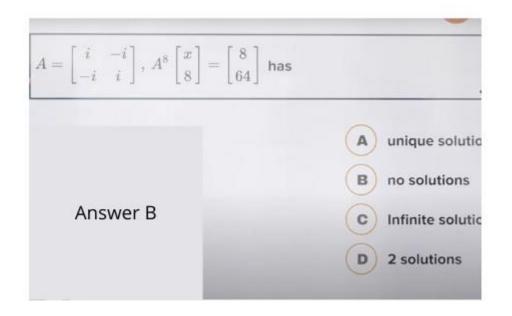
$$81^{\cos^2 x} + 81^{\sin^2 x} = 30$$
 No. of solutions of in $\mathbf{x} \in (\mathbf{0}, \mathbf{\pi})$

Answer D

B 2

C 8

$$\frac{dy}{dx} + 2y\tan x = \sin x, \ y\left(\frac{\pi}{3}\right) = 0, \text{Maximum value of y(x) is}$$
 Answer A
$$\begin{array}{c} \textbf{A} & \frac{1}{8} \\ \textbf{B} & \frac{1}{16} \\ \textbf{C} & \frac{-15}{4} \\ \textbf{D} & \frac{3}{8} \end{array}$$



A 3 \times 3 matrix is formed from {0, 1, 2, 3} & sum of diagonal elem of AA^T is 9. Find number of such matrices.

Answer 766

In a pack of 52 cards, a card is missing. If **Z' cards are drawn randomly & found to be of spades. Then probability that missing card is not of spades?

If
$$x = \int_{0}^{y} \frac{dt}{\sqrt{1+t^2}}$$
, then $\frac{d^2y}{dx^2}$ is:

Answer is Y

Sum of values of x and y satisfying $3^x-4^y=77;\ \ 3^{\frac{x}{2}}-2^y=7$

$$a+y$$
 $a^2-b^2=71$ $a-b=7$ $a+b=11$

$$3^{2} = a_{1} 2^{3} = b$$

$$3^{2} = 9 = 3^{2}, \quad 2^{3} = 2$$

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If
$$f(x) = \prod_{i=1}^{3} (x - a_i) + \sum_{i=1}^{3} a_i - 3x$$

where $a_i < a_{i+1} \ \forall \ i = 1, 2,....$, then $f(x) = 0$ has

Answer C

B 2 distinct real roots

C 3 distinct real roots

a. Hypophosphorous acid	(i) 1
b. Orthophosphorous acid	(ii) 2
c. Hypophosphoric acid	(iii) 3
d. Orthophosphoric acid	(iv) 4
	(v) 5

For BCC unit cell the edge length = 27 Å. Find the length of the same unit cell in FCC arrangement.

Ans. 33 Å

 $K_1 = 10^{-3} \text{ sec}^{-1} \underline{E}_a = 11.48 \text{ kJ/mol}$

R = 8.314 J/mole K

T = 200 K

Then K at 300 K

Ans. 10

6.5 molal solution KOH, $d = 1.89 \text{ g/cm}^3$, M = ?

Ans. 10.9 mol/litre

Name of vitamin B₁₂

- A. cyanocobalamin
- B. niacin
- C. riboflavin
- D. thiamine

Ans. A

Sulphur can be remove from are by

- A. Roasting
- B. Smelting
- C. Calcination
- D. None

Ans. A

Anti-Histamines are

- A. Antacid & Anti-allergic
- B. Antacid & analgesic
- C. Anti-depressant & Antacid
- D. Anti-pyretic & Analgesic

Ans. A

Which hydride of group 15 has most reducing power.

A. Bi
B. P
C. Sb
D. As

Total volume of container is V, 16g O₂, 44g CO₂, 28g N₂, Find pressure.

A. 3RT/V

B. 5RT/2V

C. 3RT/2V

D. None

Ans. B

Identify (A & X)

Aniline +
$$HNO_2 \xrightarrow{0 \text{ to } 5^\circ} A \xrightarrow{X} Phen$$

$$A = X = H_2O$$

$$2MnO_4^- + a C_2O_4^{2-} + cH^+ \rightarrow dCO_2 + eH_2O + fMn^{2+}$$

Find C

More Questions to be Added Shortly – Keep Checking Below Link

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