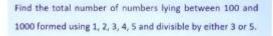
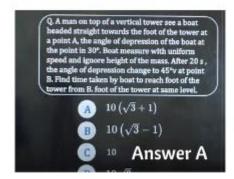
JEE Main 25th Feb Shift 1 Memory-Based Questions - CollegeDekho

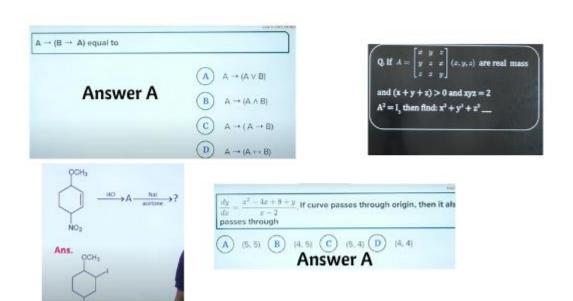




The coefficients a, b, c of quadratic equation $ax^2 + bx + c = 0$ are obtained by throwing a dice thrice. The probability that it has equal roots is

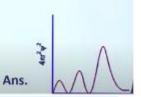
A $\frac{1}{36}$ B $\frac{1}{72}$ C $\frac{1}{54}$ D $\frac{5}{216}$ Answer D

Locus of centre of a circle which touches $x^2+y^2-6x-6y$ 14 = 0 externally and also touches y-axis



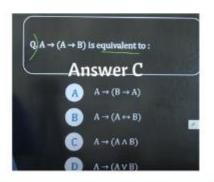
$$\int \frac{\sin \theta . \sin 2\theta \left(\sin^6 \theta + \sin^4 \theta + \sin^2 \theta\right) \sqrt{2 \sin^4 \theta + 3 \sin^2 \theta + 6}}{1 - \cos 2\theta}$$





 $\frac{x}{m} \propto kp^x \ \ \text{find the value of x}$

Ans.
$$x \Rightarrow \frac{1}{n}(n > 1)$$



$$\lim_{n\to\infty} \left[1 + \frac{\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \dots \frac{1}{n}}{n^2}\right]^n$$

$$(A) O (B) \frac{1}{e} (C) \frac{1}{2} (D) 1$$

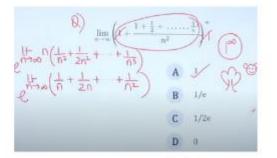
$$Answer D$$

Statement 1:CeO2 is used for oxidation of aldehyde and ketone

Statement 2: Aqueous solution of EuSO₄ acts as strong reducing agent

- A. Both statement true
- B. Statement 1 true 2 false
- C. Statement 2 true 1 false
- D. Both statement are false

Ans. A



If
$$\frac{d^2}{d}+\frac{g^2}{b}=1$$
 and $\frac{g^2}{c}+\frac{g^2}{d}=1$ are orthogonal then relation between a, b, c, d is:

Answer A

CH₃ CH₂ CN
$$\frac{SnCl_2 / H_3O^+}{PbSO_4 / H_2}$$
 ?
Answer A

- B. CH₃ CH₂ CH₂NH₂
- C. CH₃ CH₂ COOH
- C. CH₃ CH₂ CHO

Glycosidic linkage on lactose at which no. of C atom

If
$$\frac{x^2}{a} + \frac{y^2}{b} = 1$$
 and $\frac{x^2}{c} + \frac{y^2}{d} = 1$ are orthogonal then between a , b , c , d is:
$$A - a + b = c + d - B - ob = \frac{b + d}{c + d}$$

$$C - a \cdot c = b \cdot d - D - None of these$$

the following physical quar	ntities with the correct dimensions?
1	2
h (planck's constant)	[M1L2 A1 T3]
KE (kinetic energy)	[M' L' T']
V (voltage)	[M¹ L¹ T¹]
P (momentum)	[M¹ L² T²]

Ksp of AgCN is 1.2×10^{-16} find the solubility of AgCN

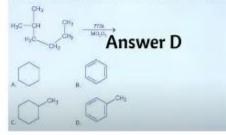
Answer - Square root of KSP

Which of the following is responsible for male secondary sexual characters

- A. Progesterone
- B. Estrogen
- C. Testoterone
- D. Penis

Answer C

What is the product formed in the following reaction?



Two satellites A & B revolve in R, = 600 km & R, = 1600 km. Find T_2 : T_1 , (4.25)

A diatomic gas is heated at constant pressure. Find the ratio dU : dQ : dW (where symbol has usual meaning)

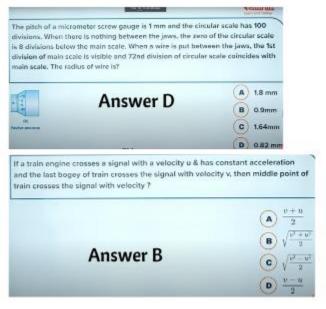
(Given : $C_p = \frac{7}{2}R$; $C_v = \frac{5}{2}R$)

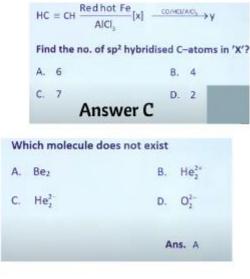
Answer B

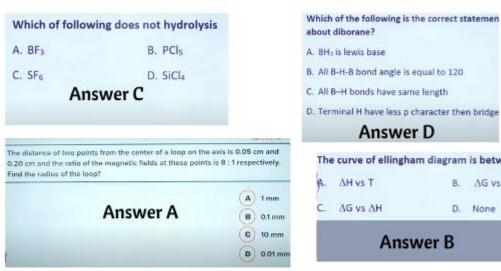
A 5:7:1

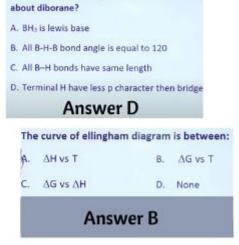
B 5:7:2

D 1:1:1









Name of the Subject	Questions	
Mathematics	To be Updated	
Physics	 To be Updated For a polytropic process whose equation is given by pvⁿ = constax is not equal to 0, 1 or Y. Which is true? Answer - Molar Seat Capacity (other options given in the question are also corrected. A charged solid conductor having a cavity +q charge. What is the charge given on the outer surface? Answer +q Circular coil of wire consisting of 100 turns each of radius 8.0 cm carries a current of 0.40 A. What is the magnitude of the bat the content of the coil? - Answer 32 What is focal length of convex lens when image size is same who object placed at 10 cm or 20 cm? 	

	Q. (A) (CO) (O) - OM 5302> (B) A and B are -
Chemistry	 Monomer of Buna S - Answer 1, 3 B & S Which of the linkage is present in Glucose and Galactose present in Lactose? Glycosidic linkage

More Questions Coming Soon

JEE Main 2021 Paper 1	JEE Main Rank Predictor	What is a Good Score in
(B.Tech) Answer Key	<u>2021</u>	JEE Main?