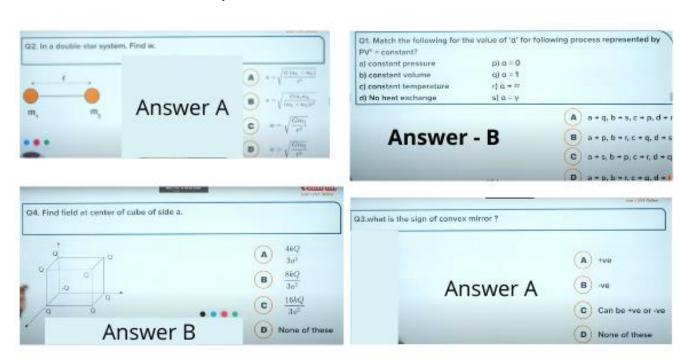
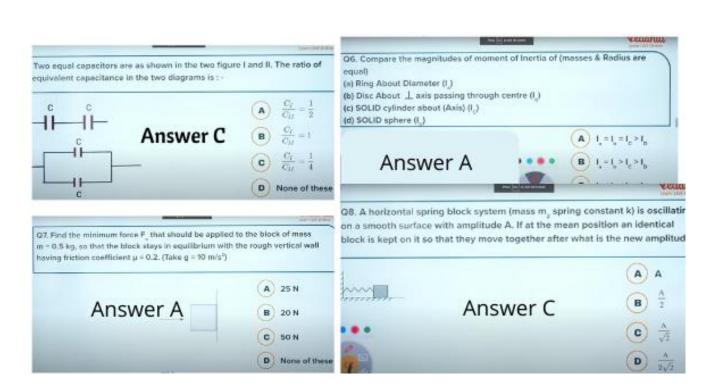
JEE Main 24th Feb Shift 1 Memory-Based Topics – CollegeDekho Exclusive

Question	Question
An astronaut has left the international space station to test a new space scooter. His partner measures the fall velocity changes which take place in 10s interval. Find the magnitude and direction of average acceleration at the beginning of 10 sec interval, the astronaut is moving towards the x-axis in 10m/sec and at the end is 10 sec. He is moving towards the -ve axis at 5m/sec. Ans. 1.5 m/sex, -ve x-axis	What will be the energy if you increase lambda
Two capacitors are given. Find the series and parallel resistant and their ratio.	Find the work done by the cylcin process.
Calculate the ionization energy of all third period elements.	If there is degradation of vegetation, then what effect is caused in the environment from gas released?
A P and V graph was given, find the work done.	Calculate the ionization energy of all third period elements.
The non-existence of PbI4 is due to Ans. Small size of Pb ion and large size of I ion. Highly reduced power of I ion.	Block m has amplitude A. If another mass of m is added what will be the new amplitude?
A body cools down from 100C to 90C in 20 minutes. It will cool down from 110C to 100C in Ans. Less than 20 minute	An ore of Tin containing FeCrO ₄ is concentrated by Ans. Magnetic separator
A cube is given and it has -q charge in one corner and +q charges in all the remaining 7 corners. Find the electric field inside the cube.	Compare the Ionisation Energy of SC, RI, V, Cr, Mn
What is the composition of gunmetal? Ans. 88 percent copper, 10 percent tin, and 2 percent zinc	The ratio of effusion does not depend on Ans. Size of molecule
Youngs double slit experiment . Relation between slit width and wavelength	There was a question from communication
The relation between youngs modulus bulk modulus and shear modulus(mcq)	Ration between time period of two satellite(mcq)
There was a question from current electricitu regarding the potential differences between two points	Relation between f and r of convex mirror
A velocity versus time graph was given. Had to choose the option showing acceleration versus time.	An ordinary dice. The probability of odd numbers coming twice is equal to probability of even numbers coming 3 times. Find probability of getting odd numbers 3 times

Two towers. One is 3 times the height of the other. Distance between them 150 m. From the mid point of the distance between 2 towers, angle of elevation calculated for both the roofs. The angles are complementary. Find height of short building.

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Q9. In the shown circuit the following the battery is of EMF 4 and internal resistance 8 Ω . Find the potential difference between points x and y is shown in the circuit.

A $V_x - V_y = 2.4 \text{ V}$ B $V_y - V_x = -2 \text{ V}$ Answer - A C $V_x - V_y = 4 \text{ V}$ D $V_x - V_y = -4 \text{ V}$

Increases

Answer B

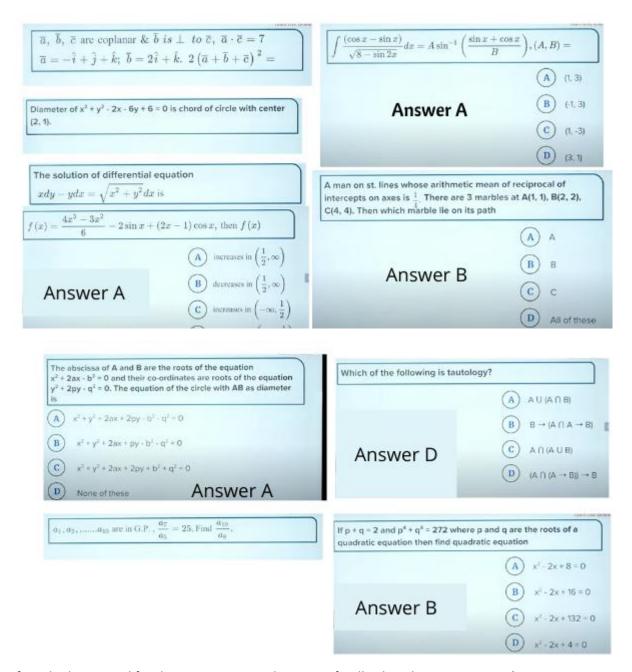
C may increase or decrease

D Does't depend on wavelength

A die is rolled n times. If the probability of getting odd number 2 times is equal to the probability of getting even number 3 times. Find the probability of getting odd number odd times

Common tangent to the curve $y^2 = 2x - 3$ and $x^2 = 4y$ lies parallel to the line

$$\lim_{n \to \infty} \tan \left(\sum_{r=1}^{n} \tan^{-1} \left(\frac{1}{r^2 + r + 1} \right) \right)$$



If you had appeared for the exam, you can share your feedback and questions on **Whats App Number 9059528251** or **E-Mail ID** sakunth.kumar@collegedekho.com

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