

JEE Main 2024 Daily Practice Questions

Physics

Ques. If $F-(3y^2+2)$ N force acting on a particle along y direction then work done by force from y=2 to y=5:

1. 200J
2. 300J
3. 127.5J
4. 100J

Ques. A stone is projected from the ground at some angle, at the highest point of its path:

1. Vertical component of velocity is the maximum
2. Horizontal component of velocity is zero
3. Gravitational potential energy is maximum
4. Kinetic energy is half of the maximum possible value

Ques. Two planets A and B have a radius in the ratio 1:3 and the ratio of their escape speed from the surface is 1:2, find the ratio of acceleration due to gravity at their surface:

1. 5/6
2. 3/4
3. 2/3

4. 1/3

Chemistry

Ques. Which element is not present in Nessler's reagent?

1. K

2. I

3. Hg

4. O

Ques. Which of the following orders is incorrect regarding the magnitude of the first electron gain enthalpy?

1. $\text{Cl} < \text{F}$

2. $\text{O} < \text{S}$

3. $\text{Te} < \text{O}$

4. $\text{S} > \text{Se}$

Ques. An atom forms two lattices FCC and BCC. The edge length of the FCC lattice is $2.5A$ and the edge length of the BCC lattice is $2A$. Then what is the ratio of the density of FCC to the density of BCC?

Mathematics

Ques. Three different Arithmetic progressions have first terms 2, 3, 7 and common differences 3, 4, 5 respectively if the last terms of sequences are 359, 239, and 197 respectively then the sum of all common terms of the three progressions is-

Ques. How many six-digit numbers are formed by digits 4, 5, and 9 which are divisible by 6 is-

Ques. Let A be an event in the absolute difference of two real numbers lying between 0 and 60 is less than a . If the probability of happening of event A is $11/36$ then a is equal to-