

JEE Main 2024 Daily Practice Questions

Physics

Ques. Find the value of X (distance of the point from centre inside the earth) if gravity at X is 4 times gravity at $4R$ (distance from centre of its earth and R is the radius of the earth)

1. $E/4$
2. $E/8$
3. $2R/3$
4. $2R/4$

Ques. The speed of light in air is V , whereas in another medium it is $V_{med} = 0.2 V$ Find the refractive index of the medium:

1. 7
2. 12
3. 8
4. 5

Ques. If two batteries are connected in series and then parallel, the current in the circuit is the same in both cases then the internal resistance of the battery is: (external resistance is R)

1. R
2. $E/2$
3. $3R$

4. R/4

Chemistry

Ques. The oxidation number of phosphorous in hypophosphoric acid is:

1. 1
2. +2
3. +3
4. +4

Ques. The outer electronic configuration of Nd^{2+} is given as:

1. $4f^4 6s^2$
2. $4f^4 6s^0$
3. $4f^2 6s^2$
4. $4f^5 6s^0$

Ques. 0.492 gm of an organic compound on combust with excess oxygen gives 0.792 gm of CO_2 then find the percentage of carbon in the given organic compound.

Mathematics

Ques. Find the remainder when 5^{99} is divided by 11

Ques. The sum of four consecutive terms of a GP is 126 and their product is 1296 then find the sum of the common ratio of all GP.

Ques. Find the number of four-digit numbers which are divisible by 3 or 11 and less than and equal to 2800.