

JEE Main 2024 Daily Practice Questions

Physics:

Ques. A has a half-life of 5 years. Find the fraction of A that might have decayed after 15 years.

1. $1/8$
2. $7/8$
3. $1/4$
4. $3/4$

Ques. A particle of mass 10 kg experiences a force $F = 5x$ along x axis. Find work done by force F on the particle from $X = 2$ to $X = 4$

1. 10J
2. 15J
3. 30J
4. 40J

Ques. The minimum angle of deviation for the equilateral prism of refractive index $n = \sqrt{2}$ will be:

1. 60°
2. 40°
3. 30°
4. 15°

Chemistry:

Ques. What is the Ratio of silica of alumina in cement

1. 3
2. 2
3. 4.5
4. 1.5

Ques. 12g of non-electrolyte A dissolved in 1000 ml of solution. It is isotonic with a 0.05 molar glucose solution. Find the molar mass of A.

Ques. In which of the following options does the species change from paramagnetic to diamagnetic and bond order increase?

Mathematics:

Ques. The number of seven-digit numbers formed using 1, 2, 3, 4 whose sum of digits is 12, is-

1. 402
2. 413
3. 421
4. 409

Ques. Let the probability of getting a head be thrice of probability of getting tail. A coin is tossed until one head or 3 tails are contained. If the number of trials is 24 then the mean of the experiment is:

1. 28.5
2. 31.5

3. 25

4. 26.5

Ques. Number of 7-digit numbers which contain only digits 1, 2, and 4, and the sum of the digits of the number is always 12, is:

1. 420

2. 413

3. 252

4. 392