

JEE Main 2024 Daily Practice Questions

Physics:

Ques. The surface area of a balloon of spherical shape being inflated, increases at a constant rate. If initially, the radius of the balloon is 3 units and after 5 seconds, it becomes 7 units, its radius after 9 seconds is:

- 1.9
- 2. 10
- 3. 11 College Dekho

Ques. Bag A contains 2 white, 1 Black, and 3 red balls and Bag B contains 3 black, 2 red, and n white balls. One bag is chosen at random and 2 balls drawn from it at random, are found to be 1 red and 1 black. If the probability that both balls come from Bag A is 6/11, then n is equal to:

- 1. 13
- 2. 6
- 3.4
- 4. 3

Ques. Two identical cells each of emf 1.5 V are connected in parallel across a parallel combination of two resistors each of resistance 20 Ω . A voltmeter connected to the circuit measures 1.2 V. The internal resistance of each cell is:

1. 2.5 Ω



2. 4 Ω
3. 5 Ω
4. 10 Ω
Chemistry:
Ques. If a rocket runs on a fuel ($C_{15}H_{30}$) and liquid oxygen, the weight of oxygen required and CO_2 released for every litre of fuel respectively are:
(Given: Density of the fuel is 0.756 g/ mL)
1. 1188 g and 1296 g
2. 2376 g and 2592 g 3. 2592 g and 2376 g 4. 3429 g and 3142 g
Ques. Given below are the oxides:
Na_2O , As_2O_3 , N_2O and Cl_2O_7
Number of amphoteric oxides is:
1. 0
2. 1
3. 2

Ques. The highest industrial consumption of molecular hydrogen is to produce

4. 3

compounds of elements:



1.	Carbon
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- 2. Nitrogen
- 3. Oxygen
- 4. Chlorine

Mathematics:

Ques. The number of distinct real roots of the equation x^7 -7x-2=0 is:

- *1.* 5
- 2. 7

3.1 College Dekho

Ques. Let the points on the plane P be equidistant from the points (-4, 2, 1) and (2, -2, 3). Then the acute angle between the plane P and the plane 2x+y+3z=1 is:

- 1. $\pi/6$
- 2. $\pi/4$
- $3. \pi/3$
- 4. $5\pi/12$

Ques. The number of 7 digit numbers which are multiples of 11 and are formed using all the digits 1, 2, 3, 4, 5, 7, and 9 is: