

JEE Main 2024 Daily Practice Questions

Mathematics:

Ques. Out of 60% female and 40% male candidates appearing in an exam, 60% of candidates qualify for it. The number of females qualifying for the exam is twice the number of males qualifying for it. A candidate is randomly chosen from the qualified candidates. The probability, that the chosen candidate is a female is:



2. 11/16

3. 23/32

4. 13/16

Ques. The remainder when 7²⁰²²+3²⁰²² is divided by 5 is:

- 1.0
- 2. 2
- 3. 3
- 4.4

Ques. Let the curves $y^2 = kx$ and xy = -1 have a common tangent, whose slope is 1/2. Then k can NOT lie in the interval.

- 1. (2, 4]
- 2. (-3, -1)
- 3. [-4, -3]
- 4. (1, 3)



Chemistry:

Ques. A NCC parade is going at a uniform speed of 9 km/h under a mango tree on which a monkey is sitting at a height of 19.6 m. At any particular instant, the monkey drops a mango. A cadet will receive the mango whose distance from the tree at the time of drop is:

(Given $g = 9.8 \text{ m/s}_2$)

- 1.5 m
- 2. 10 m
- 3. 19.8 m
- 4. 24.5 m

Ques. A balloon has a mass of 10g in the air. The air escapes from the balloon at a uniform rate with a velocity of 4.5 cm/s. If the balloon shrinks in 5s completely. Then the average force acting on that balloon will be (in dyne).

- 1.3
- 2. 9
- 3. 12
- 4. 18

Ques. If the radius of the earth shrinks by 2% while its mass remains the same. The acceleration due to gravity on the earth's surface will approximately/

- 1. Decrease by 2%
- 2. Decrease by 4%
- 3. Increase by 2%



4. Increase by 4%

Chemistry:

Ques. In which of the following pairs, electron gain enthalpies of constituent elements are nearly the same or identical?

- A. Rb and Cs
- B. Na and K
- C. Ar and Kr
- D. I and At

Choose the correct answer from the options given below:

- 1. A and B only
- 2. B and C only
- 3. A and C only
- 4. C and D only

Ques. Which of the following statement is incorrect?

- 1. Low solubility of LiF in water is due to its small hydration enthalpy.
- 2. KO₂ is paramagnetic
- 3. The solution of sodium in liquid ammonia is conducting in nature
- 4. Sodium metal has a higher density than potassium metal