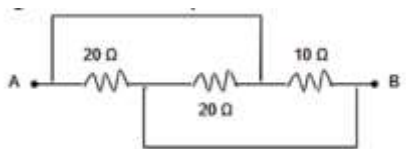


JEE Main 2024 Daily Practice Problems (DPP) and Questions

Physics

Ques. A bullet of mass 0.1 kg moving with vel 400 m/s gets embedded in a block of mass 3.9 kg at rest placed on the rough surface, the block comes to rest after traveling a distance of 20 m. Find out the coefficient of friction.

Ques. Find out the equivalent resistance between A and B.



1. $5\ \Omega$

2. $10\ \Omega$

3. $15\ \Omega$

4. $20\ \Omega$

Ques. Which of the following is the highest energy electromagnetic wave?

1. X-Ray

2. Infrared

3. Microwaves

4. Radiowaves

Chemistry

Ques. In which of the following has maximum Vander wall forces of attraction?

1. CH₄
2. Hexane
3. Ar
4. Water

Ques. Which of the following acts as a stabilizer in the decomposition of H₂O₂?

1. Urea
2. Alkali
3. Glass
4. Dust

Ques. Number of orbitals having five radial Nodes 7s, 7p, 7d, 6s and 5s.

1. 7p, 6s
2. 7p, 7d
3. 7d, 5s
4. 6s, -5s

Mathematics

Ques. The mean and variance of 12 observations are $\frac{9}{2}$ and 4. Two observations 9 and 10 were wrongly taken as 7 and 14. If the new variance is $\frac{m}{n}$. Find the value of $m+n$ where m and n coprime.

Ques. There are 3 cars, each having a maximum capacity of 3 persons. In how many ways 8 persons can travel in these cars from Place A to Place B?

Ques. Let the lines through $(1, 2)$ cut the circle $x^2 + y^2 = 16$ at A and B. Find out the locus of mid midpoint of AB.