

JEE Main April 9 Shift 2 Question Paper

1. Two vehicle each with 20m/s moves into each other initially, there separation is 300m , after some time it acquires an acceleration 2m/s^2 . Their distance between each row is?
2. If the nucleus of the mass is disintegrated into $1:2$. The nucleus move as?
3. If a proton of mass m_p and a and a α -particle of m_α entered in a magnetic field with same kinetic energy. Find the Radius?
4. A fair dice is rolled thrice... probability that no. obtained on i th roll is greater than $(i-1)$ th roll for $i=2,3$ is?
5. What is the structure of carbocation?
6. The mole of H_2O and $\text{C}_2\text{H}_5\text{OH}$ are 9 and 1 mole respectively the mass percentage of $\text{C}_2\text{H}_5\text{OH}$ will be?
7. The work done by a diatomic gas during an isobaric process is 100J . Calculate the heat supplied?
8. Two satellites are revolving around a planet at radius a and $4a$ respectively. If the speed of the first satellite is $6u$, find the speed of second satellite?
9. Total number of carbon atom in Tyrosine is?
10. 9.3 gram of aniline is treated with excess of $\text{NaNO}_2 + \text{HCl}$, then with phenol what is the weight of the orange dye product?
- 11.