

JEE Main April 9 Shift 2 Answer Key

1. Two vehicle each with 20m/s moves into each other initially, there separation is 300m, after some time it acquires an acceleration 2m/s². Their distance between each row is?

Ans: 300

2. If the nucleus of the mass is disintegrated into 1:2 . The nucleus move as?

Ans: Same speed Same direction

3. If a proton of mass m_p and a_d and a_d α -particle of m_α entered in a magnetic field with same kinetic energy. Find the Radius?

Ans: $r = (r_1 + r_2)/2$

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?

Ans: 5/6

5. What is the structure of carbocation?

Ans: Trigonal planar

6. The mole of H₂O and C₂H₅OH are 9 and 1 mole respectively the mass percentage of C₂H₅OH will be?

Ans: 22.11%

7. The work done by a diatomic gas during an isobaric process is 100J . Calculate the heat supplied?

Ans: 350

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?

Ans: $3u$

9. Total number of carbon atom in Tyrosine is?

Ans: 9

10. 9.3 gram of aniline is treated with excess of NaNO + HCl, then with phenol what is the weight of the orange dye product?

Ans: 0.1 Mole

11.