

JEE Main 2024 Daily Practice Problems (DPP) and Questions

Physics

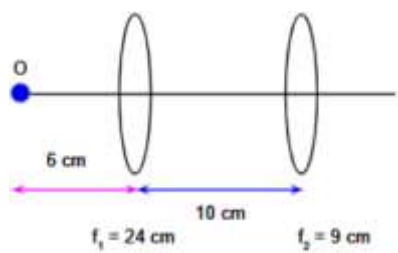
Ques. Two projectiles were projected at angles of 30° and 60° with the same velocity. Find the ratio of their maximum heights.

1. 1:1
2. 1:2
3. 1:3
4. 1:4

Ques. Two wires of the same length with an area of cross sections in the ratio 1:3 have the same load applied. Their Young's moduli are in the ratio 1:4. Find the ratio of elongations.

1. 12:1
2. 20:1
3. 5:1
4. 1:5

Ques. Find the distance between the object and the image.



Chemistry

Ques. Number of molecules having two lone pairs F_2 , XeF_4 , NO , NO_2 , CO , H_2O , CO_2

1. 2
2. 3
3. 4
4. 5

Ques. Which does not disturb the balance of CO_2 and O_2 ?

1. Burning of coal
2. Respiration
3. Burning of Petroleum
4. Photosynthesis

Ques. Correct order of Metallic character of the following elements K, Be, Ca

1. $K > Be > Ca$
2. $Ca > Be > K$
3. $Be > Ca > K$

4. $K > Ca > Be$

Mathematics

Ques. Find the sum of 4-digit numbers that can be formed using the digits 1, 3, 2, 2.

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

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. If $\frac{{}^nC_n}{n+1} + \frac{{}^nC_{n-1}}{n} + \dots + \frac{1}{2} {}^nC_1 + {}^nC_0 = \frac{255}{8}$ Then the value of n is.