Date: 28/08/2022



Corporate Office: Aakash Tower, 8, Pusa Road, New Delhi-110005 | Ph.: 011-47623456

Time: 3 hrs. Answers & Solutions

Max. Marks: 180

for

JEE (Advanced)-2022 (Paper-2)

PART-I: PHYSICS

SECTION - 1 (Maximum marks : 24)

- This section contains EIGHT (08) questions.
- The answer to each question is a SINGLE DIGIT INTEGER ranging from 0 TO 9, BOTH INCLUSIVE.
- For each question, enter the correct integer corresponding to the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer.
- Answer to each question will be evaluated according to the following marking scheme;

Full Marks : +3 If ONLY the correct integer is entered:

Zero Marks : 0 If the guestion is unanswered;

Negative Marks : -1 In all other cases.

1. A particle of mass 1 kg is subjected to a force which depends on the position as $\vec{F} = -k(x\hat{i} + y\hat{j}) \text{ kg ms}^{-2}$ with $k = 1 \text{ kg s}^{-2}$. At time t = 0, the particle's position $\vec{r} = \left(\frac{1}{\sqrt{2}}\vec{i} + \sqrt{2}\vec{j}\right) \text{m}$ and its velocity

 $\vec{v} = \left(-\sqrt{2}\vec{i} + \sqrt{2}\vec{j} + \frac{2}{\pi}\vec{k}\right)$ ms⁻¹. Let v_x and v_y denote the x and the y components of the particle's velocity,

respectively. Ignore gravity. When z = 0.5 m, the value of $(xv_y - yv_z)$ is _____ m²s⁻¹.

Answer (3)

Sol. $F_n = -x = ma_n$.

So
$$a_x = \frac{\sigma^{\alpha} x}{\sigma t^2} = -x$$

 $\Rightarrow x = A_s \sin(\omega t + \phi_s)$ ($\omega = 1 \text{ rad/s}$)

Jee Advanced 24actual Question Paper

Jagran Josh

Jee Advanced 24actual Question Paper:

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