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

 $\vec{v} = \left(-\sqrt{2}\vec{i} + \sqrt{2}\vec{j} + \frac{2}{\pi}\vec{k}\right) \text{ms}^{-1}$ . 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 \_\_\_\_\_ m<sup>2</sup>s<sup>-1</sup>.

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 Paper Eduwave

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