

PAPER-1 [Code – 8]

IITJEE 2012

PART - I: PHYSICS

SECTION I : Single Correct Answer Type

This section contains 10 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

1. In the determination of Young's modulus $\left[Y = \frac{4Mg}{\pi d^3} \right]$ by using Searle's method, a wire of length $L = 2m$ and diameter $d = 0.5 \text{ mm}$ is used. For a load $M = 2.5 \text{ kg}$, an extension $e = 0.25 \text{ mm}$ in the length of the wire is observed. Quantities d and e are measured using a screw gauge and a micrometer, respectively. They have the same pitch of 0.5 mm . The number of divisions on their circular scale is 100. The contributions to the maximum probable error of the 'Y' measurement
- (A) due to the errors in the measurements of d and e are the same.
 - (B) due to the error in the measurement of d is twice that due to the error in the measurement of e .
 - (C) due to the error in the measurement of e is twice that due to the error in the measurement of d .
 - (D) due to the error in the measurement of d is four times that due to the error in the measurement of e .

Sol.

(A)

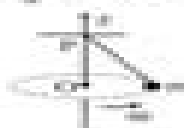
$$\text{L.C.} = \frac{0.5}{100} = 0.005 \text{ mm}$$

$$\frac{\Delta Y}{Y} = \frac{\Delta e}{e} + \frac{3\Delta d}{d}$$

$$\frac{\Delta e}{e} = \frac{0.005 \times 10^{-3}}{0.25 \times 10^{-3}} = \frac{1}{50}$$

$$2 \frac{\Delta d}{d} = \frac{2 \times 0.005 \times 10^{-3}}{0.5 \times 10^{-3}} = \frac{1}{50}$$

2. A small mass m is attached to a massless string whose other end is fixed at P as shown in the figure. The mass is undergoing circular motion in the $x-y$ plane with centre at O and constant angular speed ω . If the angular momentums of the system, calculated about O and P are denoted by $\vec{L}_O$ and $\vec{L}_P$ respectively, then



- (A) $\vec{L}_O$ and $\vec{L}_P$ do not vary with time.
- (B) $\vec{L}_O$ varies with time while $\vec{L}_P$ remains constant.
- (C) $\vec{L}_O$ remains constant while $\vec{L}_P$ varies with time.
- (D) $\vec{L}_O$ and $\vec{L}_P$ both vary with time.

Sol.

(C)

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Jianjun Gao



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