

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 $\left[Y = \frac{4Mg}{\pi d^2 l} \right]$ 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 $l = 0.25 \text{ mm}$ in the length of the wire is observed. Quantities d and l 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 l are the same.
 - (B) due to the error in the measurement of d is twice that due to the error in the measurement of l .
 - (C) due to the error in the measurement of l 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 l .

Sol.

(A)

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

$$\frac{\Delta Y}{Y} = \frac{\Delta l}{l} + \frac{2\Delta d}{d}$$

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

$$2 \frac{\Delta d}{d} = \frac{2 \times 0.005 \times 10^{-3}}{0.5 \times 10^{-3}} = \frac{1}{25}$$

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 momentum 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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M Walker



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