# HSC Maharashtra Board question paper: March 2013

### Note:

- i. All question are compulsory
- ii. Neat diagrams must be drawn wherever necessary.
- SHE. Figure to the right indicate full marks.
- iw. Use of logarithmic table is allowed.
- All symbols have their usual meaning unless otherwise stated. W.

# PHYSICS: SECTION – I

### Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question:

- The moment of inertia of a thin uniform rod of mass M and length L, about an axis passing through a point, midway between the centre and one end, perpendicular to its length is
- (A)  $\frac{48}{7}$  ML<sup>2</sup> (B)  $\frac{7}{48}$  ML<sup>2</sup> (C)  $\frac{1}{48}$  ML<sup>2</sup>

- (D)  $\frac{1}{16}ML^2$
- 'n' droplets of equal size of radius r coalesce to form a bigger drop of radius R. The energy liberated iii. is equal to \_\_\_\_\_\_. (T = Surface tension of water)
  - (A)  $4\pi R^2 T[n^3 1]$

(B)  $4\pi r^2 T[n^{\frac{1}{3}} - 1]$ 

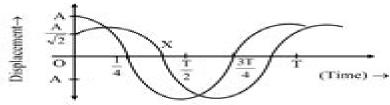
(C)  $4\pi R^2 T \left[ n^{\frac{1}{3}} - 1 \right]$ 

- (D)  $4\pi r^2 T \left( n^{\frac{1}{3}} 1 \right)$
- The buckling of a beam is found to be more if . ini.
  - (A) the breadth of the beam is large.
  - the beam material has large value of Young's modulus.
  - (C) the length of the beam is small.
  - (D) the depth of the beam is small.
- When a transverse wave on a string is reflected from the free end, the phase change produced is iv.
  - (A) zero rad (B)  $\frac{\pi}{2}$  rad
- (C)  $\frac{3\pi}{4}$  rad

- (ID)
- The number of degrees of freedom for a rigid diatomic molecule is \_\_\_\_\_\_.  $W_{n'}$ 
  - (A) 3

(B)

- VII. Two particles perform linear simple harmonic motion along the same path of length 2A and period T as shown in the graph below. The phase difference between them is



- (A) zero rad.

(C)  $\frac{\pi}{2}$  rad

(D)  $\frac{3\pi}{4}$  rad

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