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) $\frac{48}{7}$ ML² (B) $\frac{7}{48}$ ML² (C) $\frac{1}{48}$ ML²

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

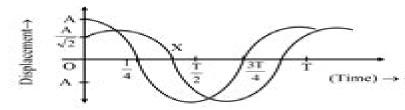
- (D) $4\pi r^2 T \left(n^{\frac{1}{3}} 1 \right)$
- The buckling of a beam is found to be more if . ini.
 - (A) the breadth of the beam is large.
 - the beam material has large value of Young's modulus.
 - (C) the length of the beam is small.
 - (D) the depth of the beam is small.
- When a transverse 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

VII.

(B)

- 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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