

# HSC Maharashtra Board question paper: March 2013

## Note:

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

## PHYSICS: SECTION – I

**Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question: [7]**

- 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)  $\frac{48}{7} ML^2$  (B)  $\frac{7}{48} ML^2$  (C)  $\frac{1}{48} ML^2$  (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 is equal to \_\_\_\_\_. ( $T$  = Surface tension of water)  
(A)  $4\pi R^2 T [n^{\frac{1}{3}} - 1]$  (B)  $4\pi r^2 T [n^{\frac{1}{3}} - 1]$   
(C)  $4\pi R^2 T [n^{\frac{2}{3}} - 1]$  (D)  $4\pi r^2 T [n^{\frac{2}{3}} - 1]$
- The buckling of a beam is found to be more if \_\_\_\_\_.  
(A) the breadth of the beam is large.  
(B) 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 \_\_\_\_\_.  
(A) zero rad (B)  $\frac{\pi}{2}$  rad (C)  $\frac{3\pi}{4}$  rad (D)  $\pi$  rad
- The number of degrees of freedom for a rigid diatomic molecule is \_\_\_\_\_.  
(A) 3 (B) 5 (C) 6 (D) 7
- 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 (B)  $\frac{\pi}{4}$  rad (C)  $\frac{\pi}{2}$  rad (D)  $\frac{3\pi}{4}$  rad

# Hsc Sample Question Papers 2013

**Hongru Du**



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H.S.C Sample Papers Commerce Stream for 2022 Exam (MH Board) : New Pattern Questions - Hindi, Eng, Marathi, Economics, Commerce, Maths & Stats, Accts Oswal - Gurukul,2021-08-25 H S C SAMPLE PAPERS Maharashtra Board for 2022 Exam Commerce Stream Handbook of 9 Subjects Activity Sheet Question Papers on New Pattern **Cambridge Checkpoints HSC Standard English 2017** Mel Dixon,Kate Murphy,Amy Hughes,2016-06-28 Cambridge Checkpoints HSC Advanced English 2017 Melpomene Dixon,Kate Murphy,Amy Hughes,2016-06-28 *Cambridge Checkpoints HSC Chemistry 2017-19* Maureen Slade,Roger Slade,2016-06-29 **The Routledge Handbook of English Language**

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mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science     *Light Sensitive Learners* Wendy Johnson, 2024-04-08 This book explains why Australian governments are doing nothing for marginalised light sensitive learners Government inaction is explored via policymaking theories and contrasted with a case study of active policymaking in a NSW high school which resulted in improved academic results This book exposes inequity and provides a warrant for action A must read for policy scholars who want to detect and understand policy inaction educators who want to support Light Sensitive Learners lighting designers who want to reduce the negative impacts of artificial lighting lawyers who want to understand the original intent and importance of the clause learning differently in the Disability Discrimination Act parents who want to know who's to blame

**Green Infrastructure** Rohana Hassan, Nor Hayati Abdul Hamid, Ahmad Kamil Arshad, Anizahyati Alisibramulisi, Muhd Norhasri Muhd Sidek, Norshariza Mohamad Bhkari, Ekarizan Shaffie, 2021-12-05 This book presents the meaning of green infrastructure and its concerns to the contribution of materials and applications It explores the evolving contested material under green infrastructure covering timber concrete soil and pavement It discusses the resistance to the ambiguity of managing the construction of green infrastructure and drawing on wider debates around applications and processes on construction These contributions are by no means definitive but rather an attempt to provide a detached and holistic perspective on the engineering green infrastructure concept

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