

HSC Maharashtra Board question paper: March 2013

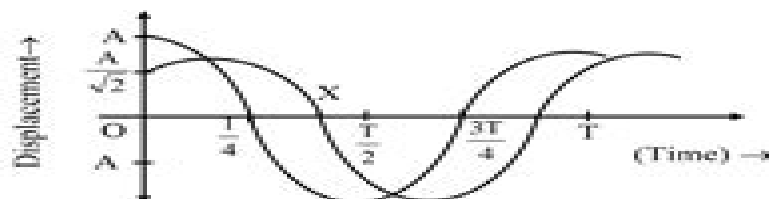
Note:

- 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) π 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

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Wendy Johnson

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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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 Education in Bangladesh Shaila Sultana,M. Moninoor Roshid,Md. Zulfeqar Haider,Mian Md. Naushaad Kabir,Mahmud Hasan Khan,2020-12-17 This Handbook is a comprehensive overview of English language education in Bangladesh Presenting descriptive theoretical and empirical chapters as well as case studies this Handbook on the one hand provides a comprehensive view of the English language teaching and learning scenario in Bangladesh and on the other hand comes up with suggestions for possible decolonisation and de eliticisation of English in Bangladesh The Handbook explores a wide range of diverse endogenous and exogenous topics all related to English language teaching and learning in Bangladesh and acquaints readers with different perspectives operating from the macro to the micro levels The theoretical frameworks used are drawn from applied linguistics education sociology political science critical geography cultural studies psychology and economics The chapters examine how much generalisability the theories have for the context of Bangladesh and how the empirical data can be interpreted through different theoretical lenses There are six sections in the Handbook covering different dynamics of English language education practices in Bangladesh from history policy and practice to assessment pedagogy and identity It is an invaluable reference source for students researchers and policy makers interested in English language ELT TESOL and applied linguistics *Cambridge Preliminary Mathematics General* Greg Powers,2012-12-21 Cambridge preliminary mathematics general second edition has been completely revised for the stage 6 mathematics general syllabus implement from 2013 to prepare you for the HSC general 1 or general 2 course *National Student Assessment 2013 for Grades 3 and 5 ,2013* Mechanics of Structures and Materials XXIV Hong Hao,Chunwei Zhang,2019-08-08 *Mechanics of Structures and Materials Advancements and Challenges* is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage 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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