

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

Hsc Exam Physics Question Paper

J. Buultjens



Hsc Exam Physics Question Paper:

Excel HSC Physics Sample Exam Papers Neville Warren,2001 *H.S.C Sample Papers Science Stream for 2022 Exam (Maharashtra Board) : New Pattern Questions - Hindi, Eng, Marathi, Maths & Stats, Physics, Chem, Bio* Oswal - Gurukul,2021-08-25 H S C SAMPLE PAPERS Maharashtra Board for 2022 Exam Science Stream Handbook of 8 Subjects Activity Sheet Question Papers on New Pattern **Excel Mastering the HSC Maximising Your UAI** Peter Sheahan,Liz Ramsay,2002 Senior High School Japanese Beginners/Accelerated Level Fudeko Reekie,2002 This study guide to HSC Japanese offers a comprehensive coverage for the entire course from year 11 Includes seven main themes and over 100 pages of HSC type questions **Excel Senior High School Fundamentals of English** David Mahony,2002 This comprehensive study guide offers coverage of all five modules in the HSC english course **Excel Senior High School Information and Research Skills for Assessment Success** Ian Biddle,2000 Contains articles by different authors including Ian Biddle Chris Greef Maree Herrett Debra Kelliher Rodney Lane Marshall Leaver Robert Mulas Sophie Mynott Cameron Paterson and Ross Todd Applies the Information Skills Process to the preparation of assessment tasks for the Biology Business Studies English Geography Modern History and Society and Culture HSC 2001 Syllabi Excel HSC Economics J. Buultjens,2005 Contains comprehensive coverage of the new course chapter summaries research activities glossary of terms and useful websites Standard English Barry Spurr,Lloyd Cameron,2000 Excel Preliminary Chemistry C. M. Roebuck,2003 *Excel HSC Physics* Neville G. Warren,2003

Hsc Exam Physics Question Paper Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Hsc Exam Physics Question Paper**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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