

- (iv) Wavelengths of two notes in the air are $\left(\frac{70}{153}\right)^m$ and $\left(\frac{70}{157}\right)^m$. Each of these

notes produces 8 beats per second with a tuning fork of fixed frequency.

Find the velocity of sound in the air and frequency of the tuning fork.

Q. 2. Attempt any SIX :

[12]

- Draw a diagram showing different stages of projection for artificial satellite.
- State the law of conservation of angular momentum and explain with a suitable example.
- Define the angle of contact and state its any 'two' characteristics.
- With a neat and labelled diagram, explain Ferry's perfectly black body.
- A stone of mass 5 kg, tied to one end of a rope of length 0.8 m, is whirled in a vertical circle. Find the minimum velocity at the highest point and at the midway point. [$g = 9.8 \text{ m/s}^2$]
- The maximum velocity of a particle performing linear S.H.M. is 0.16 m/s. If its maximum acceleration is 0.64 m/s^2 , calculate its period.
- Water rises to a height 3.2 cm in a glass capillary tube. Find the height to which the same water will rise in another glass capillary having half area of cross section.
- A 36 cm long sonometer wire vibrates with frequency of 280 Hz in fundamental mode, when it is under tension of 24.5 N. Calculate linear density of the material of wire.

Q. 3. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- A thin wire of length L and uniform linear mass density ρ is bent into a circular coil. M. I. of the coil about tangential axis in its plane is _____
 (a) $\frac{3\rho L^2}{8\pi^2}$ (b) $\frac{8\pi^2}{3\rho L^2}$ (c) $\frac{3\rho L^3}{8\pi^2}$ (d) $\frac{8\pi^2}{3\rho L^3}$
- The average displacement over a period of S.H.M. is _____
 (A = amplitude of S.H.M.)
 (a) 0 (b) A (c) 2A (d) 4A
- In which of the following substances, surface tension increases with increase in temperature ?
 (a) Copper (b) Molten copper (c) Iron (d) Molten iron
- The ratio of diameters of two wires of the same material and length is $n : 1$. If the same load is applied to both the wires then increase in the length of the thin wire is _____ ($n > 1$).
 (a) n^4 times (b) n^2 times (c) n times (d) n^2 times
- The co-efficient of reflection of an opaque body is 0.16. Its co-efficient of emission is _____.
 (a) 0.94 (b) 0.84 (c) 0.74 (d) 0.64
- Let velocity of a sound wave be ' v ' and ' ω ' be angular velocity. The propagation constant of the wave is _____.
 (a) $\sqrt{\frac{\omega}{v}}$ (b) $\sqrt{\frac{v}{\omega}}$ (c) $\frac{\omega}{v}$ (d) $\frac{v}{\omega}$

Hsc Physics Question Paper 2014

Ian Pickup



Hsc Physics Question Paper 2014:

Knowledge-building Karl Maton, Susan Hood, Suellen Shay, 2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design educational sites schooling vocational education and higher education practices of research curriculum pedagogy and assessment both education and informal learning contexts such as museums and masonic lodges Carefully sequenced and interrelated these chapters form a coherent collection that gives a unique insight into one of the most thought provoking and innovative ways of building knowledge about knowledge building in education and society to have emerged this century This book is essential reading for all serious students and scholars of education sociology and linguistics *Physics* Christine Eslick, Rosemary Peers, 2020 Excel success one HSC physics contains 2004 2014 2015 2019 past HSC questions with detailed answers written by experienced HSC markers a topic index a mark maximizer guide and a glossary of key verbs This title helps you get the results you want by practising actual HSC papers and answering HSC level questions **Physics** Karen Enkelaar, Rosemary Peers, 2021 Excel Success One HSC Physics 2021 Edition contains Over 100 objective response and short answer questions from past HSC Papers 2004 2014 arranged into Module topics Four sample HSC Examination papers with actual questions from the 2015 2018 HSC papers All questions in these sample papers are on topics examinable in the new syllabus Over half of each paper s questions are actual past HSC questions and the others are written for the new topics in the updated syllabus Three Excel sample HSC Examination papers written to the new syllabus and based on the new HSC exam format The 2019 and 2020 HSC Examination papers Answers to all questions with distribution of marks for each question **Success One Physics** 2018 Edit, Mark Dixon, 2018-02-12 Excel Success One HSC Physics contains 2001 2017 past HSC questions with detailed answers written by experienced HSC markers a Topic Index a Mark Maximizer Guide and a Glossary of Key Verbs This title helps you get the results you want by practising actual HSC papers and answering HSC level questions **Physics** 2014 Edit, 2014 EXCEL SUCCESS ONE HSC PHYSICS contains 2001 2003 and 2005 2013 past HSC questions with detailed answers written by experienced HSC markers a Topic Index a Mark Maximizer Guide and a Glossary

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