

- (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  $0.64 \text{ m/s}^2$ , 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  $\rho$  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 ' $\omega$ ' 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 Phy Question 2014

**John Grandfield**

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

## Hsc Phy Question 2014:

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**Light Metals 2014** John Grandfield, 2014-01-30 The 2014 collection will include papers from the following symposia Alumina and Bauxite Aluminum Alloys Fabrication Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Light metal Matrix Nano composites

**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

*Blended Learning in Engineering Education* Aatur Rahman, Vojislav Ilic, 2018-11-06 Blended Learning combines the conventional face to face course delivery with an online component The synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own The highly improved interaction it offers to students as well as direct accessibility to the lecturer adds to the hitherto unparalleled learning outcomes Blended Learning in Engineering Education Recent Developments in Curriculum Assessment and Practice highlights current trends in Engineering Education involving face to face and online curriculum delivery This book will be especially useful to lecturers and postgraduate undergraduate students as well as university administrators who

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**Science Education** Keith S. Taber,Ben Akpan,2016-12-27 This book comprises a wide range of scholarly essays introducing readers to key topics and issues in science education Science education has become a well established field in its own right with a vast literature and many active areas of scholarship Science Education An International Course Companion offers an entry point for students seeking a sound but introductory understanding of the key perspectives and areas of thinking in science education Each account is self contained and offers a scholarly and research informed introduction to a particular topic theme or perspective with both citations to key literature and recommendations for more advanced reading Science Education An International Course Companion allows readers such as those preparing for school science teaching or seeking more advanced specialist qualifications to obtain a broad familiarity with key issues across the field as well as guiding wider reading about particular topics of interest The book therefore acts as a reader to support learning across courses in science education internationally The broad coverage of topics is such that that the book will support students following a diverse range of courses and qualifications The comprehensive nature of the book will allow course leaders and departments to nominate the book as the key reader to support students their core course companion in science education

**New Horizons for Observational Cosmology** A. Cooray,E. Komatsu,A. Melchiorri,2015-01-06 Our understanding of the universe has been revolutionized by observations of the cosmic microwave background the large scale structure of the universe and distant supernovae These studies have shown that we are living in a strange universe 96% of the present day energy density of the universe is dominated by so called dark matter and dark energy But we still do not know what dark matter and dark energy actually are This book presents lectures from the 186th Course in the Enrico Fermi International School of Physics entitled New Horizons for Observational Cosmology held in Varenna Italy in July 2013 Topics covered at this school included cosmic microwave background anisotropies galaxy clustering weak lensing dark energy dark matter inflation modified gravity neutrino physics reionization galaxy formation and first stars The anticipated release of Planck data at the end of 2014 will provide a more complete view of temperature anisotropy of the cosmic microwave background and the reporting of other important results is also expected soon These new data will undoubtedly address fundamental questions about the universe This book prepares the ground for future work which may answer some of these exciting questions

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**Dialogic Pedagogy** Anne Thwaite, Alyson Simpson, Pauline Jones, 2023-05-18 Taking a dialogic approach this edited book engages in analysis and description of dialogic discourse in a number of different educational contexts from early childhood to tertiary with an international team of contributors from Australia Finland New Zealand and the United Kingdom The chapters focus mostly on dialogic face to face discourse with some examples of online interactions and feature insights from educational linguistics particularly the work of Michael Halliday While the contributors come from a range of theoretical backgrounds they all share an interest in language in use and engage in close analysis of transcripts of naturally occurring interaction Taking inspiration from Alexander and other theorists they employ a fine grained and analytic approach to the exploration of their data The authors make use of the linguistic tools and models of language in society in order to examine the turn by turn unfolding of the interaction The authors relate their insights from disparate forms of linguistic analysis to elements of Alexander s 2020 dialogic framework situating the discourse in its contexts and discussing the pedagogical implications of the linguistic choices at play In presenting this work from a range of situations and perspectives the authors strive to demonstrate how dialogic discourse plays out in educational contexts across the world The book aims to foster further research in this direction and to inspire educators to explore dialogic discourse for themselves It will be of interest to a wide audience including literacy researchers linguists teachers and teacher educators as well as graduate students

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