

HSC Maharashtra Board question paper: March 2013

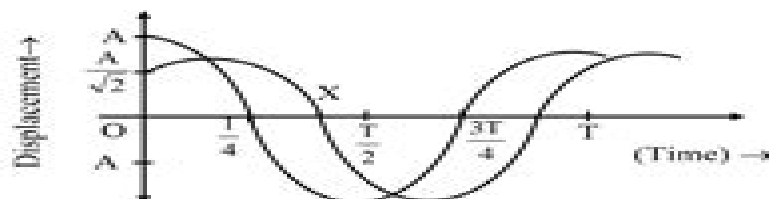
Note:

- 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 Arts Question Papers 2013

Bowker



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The Insider's Guide to the Colleges, 2013 Yale Daily News, Yale Daily News Staff, 2012-07-03 College students discuss what colleges are really like including grades sports social life alcohol policies gender relations admissions and classes

EASYUNI Ultimate University Guide 2013 easyuni Sdn Bhd, 2013-11-11 Taking a decision about your future is not very simple it requires intensive research and some strong decision making skills Am I choosing the right course will I get a job after I graduate should I do what I love doing will I be able to manage my budgets These questions are always relevant to students who are planning to pursue their higher education and easyuni s guidebook is an attempt to answer a few of these questions This guidebook is another step forward to improve the entire experience of university selection and application The guidebook is an attempt to answer questions of millions of students who are eligible for enrollment in higher education institutes in 2013 2014 The guidebook consists of 80 pages of educational content including articles on studying abroad choosing and applying for universities what to study and scholarships loans among others The articles also focus heavily on the seven most popular subjects namely Engineering Medicine Information Technology Science Arts and Creative Design and Business and Accounting

In the Event of Women Tani Barlow, 2021-09-20 In the Event of Women outlines the stakes of what Tani Barlow calls the event of women Focusing on the era of the late nineteenth century through the mid twentieth century s Cultural Revolution Barlow shows that an event is a politically inspired action to install a newly discovered truth in this case the mammal origins of human social evolution Highbrow and lowbrow social theory circulating in Chinese urban print media placed humanity s origin story in relation to commercial capital s modern advertising industry and the conclusion that women s liberation involved selling buying and advertising industrial commodities The political struggle over how the truth of women in China would be performed and understood Barlow shows means in part that an event of women was likely global because its truth is vested in biology and physiology In so doing she reveals the ways in which historical universals are effected in places where truth claims are not usually sought This book reconsiders Alain Badiou s concept of the event particularly the question of whose political moment marks newly discovered truths

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

Graduate Programs in the Biological/Biomed Sciences & Health-Related/Med Prof 2015 (Grad 3) Peterson's,2014-12-16 Peterson's Graduate Programs in the Biological Biomedical Sciences Health Related Medical Professions 2015 contains profiles of 6 750 graduate programs at over 1 200 institutions in the biological biomedical sciences and health related medical professions Informative data profiles are included for 6 750 graduate programs in every available discipline in the biological and biomedical sciences and health related medical professions including facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate program school or department as well as information on faculty research and the college or university Comprehensive directories list programs in this volume as well as others in the graduate series

Doing Research in Social Work and Social Care Catherine Flynn,Fiona McDermott,2024-12-04 Do you want to understand how best to embrace the challenges surprises and successes of research This book acts as a journey through research to empower you to make the necessary connections between research and professional practice From understanding the concepts of research and gathering data to guiding you in writing it up and achieving positive change this book will give you a confident start with clarity on core concepts and getting it right ethically an insight into diversity in approaches the impact of context and how to overcome problems A better understanding of the realities of social work and social care practice Step by step guidance at each point in the research process Equipped with a wealth of case studies and real world examples to help you put your knowledge into practice this book is the perfect companion for students who want to transition to successful practitioner researchers

Arts & Humanities Citation Index ,1992 *Methods of Engagement of Dementia Care Users in Research and Practice Development* W. George Kernohan,Suzanne Timmons,Anthea Innes ,David Edvardsson,2025-10-23 Dementia is a complex and chronic condition associated with significant physical cognitive and emotional challenges The burden of dementia weighs not only on people living with dementia but also on their families and caregivers The development of new effective and sustainable dementia care interventions therefore requires the active engagement of all service users in research studies and in the implementation of research findings in the dementia care practice while ensuring that interventions are tailored to meet individual needs and preferences However there remains

a need to build innovative methods to engage service users in the development and evaluation of dementia care interventions The goal of this Research Topic is to explore and advance the use of innovative methods to engage dementia care users in research and practice development Specifically we aim to highlight best practices and approaches to involving people living with dementia and their families in the design implementation and evaluation of dementia care interventions with a focus on participatory co design and other collaborative approaches to research and practice development We welcome the submission of any type of manuscript supported by the journal including Original Research Review etc addressing a range of topics related to stakeholder engagement in the development and evaluation of dementia care interventions These topics may include but are not limited to the following The design and implementation of participatory co design or other collaborative approaches to research and practice development in dementia care including methods to identify and prioritize the needs and preferences of dementia care users and their families The role of patient and public involvement PPI in the development and evaluation of dementia care interventions including the evaluation of PPI approaches and their impact on intervention design and outcomes Strategies to engage and support caregivers in the co design and evaluation of dementia care interventions including best practices in recruitment training and building capacity The evaluation of the impact of stakeholder engagement on the acceptability feasibility effectiveness and sustainability of dementia care research and interventions Ethical and practical considerations in the use of participatory and co design approaches to dementia care research and practice development Suitable theoretically sound frameworks to inform and guide the engagement of people with dementia and their family members in research that intends to enhance their lives [Australian Education Index](#) ,1980

Australian Books in Print 1997 Bowker,1997-03 excellent coverage essential to worldwide bibliographic coverage AMERICAN REFERENCE BOOKS ANNUAL This comprehensive reference provides current finding ordering information on more than 60 000 in print books published in or about Australia or written by Australian authors organized by title author keyword You ll also find brief profiles of more than 5 000 publishers distributors whose titles are represented as well as information on trade associations local agents of overseas publishers literary awards more

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