

# SOLUTIONS TO IIT-JEE 2007 (PAPER-2)

## PHYSICS

### PART I

#### SECTION - I

##### Straight Objective Type

This section contains 9 multiple choice questions numbered 1 to 9. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

1. In the experiment to determine the speed of sound using a resonance column,  
 (A) prongs of the tuning fork are kept in a vertical plane  
 (B) prongs of the tuning fork are kept in a horizontal plane  
 (C) in one of the two resonances observed, the length of the resonating air column is close to the wavelength of sound in air  
 (D) in one of the two resonances observed, the length of the resonating air column is close to half of the wavelength of sound in air.

Sol : (A)

2. A student performs an experiment to determine the Young's modulus of a wire, exactly 2m long, by Searle's method. In a particular reading, the student measures the extension in the length of the wire to be 0.8 mm with an uncertainty of  $\pm 0.05$  mm at a load of exactly 1.0 kg. The student also measures the diameter of the wire to be 0.4 mm with an uncertainty of  $\pm 0.01$  mm. Take  $g = 9.8 \text{ m/s}^2$  (exact). The Young's modulus obtained from the reading is

- (A)  $(2.0 \pm 0.3) \times 10^{11} \text{ N/m}^2$  (B)  $(2.0 \pm 0.2) \times 10^{11} \text{ N/m}^2$   
 (C)  $(2.0 \pm 0.1) \times 10^{11} \text{ N/m}^2$  (D)  $(2.0 \pm 0.05) \times 10^{11} \text{ N/m}^2$

Sol:  $Y = \frac{FL}{Al} = \frac{4FL}{\pi d^2 l}$  Where L = length of the wire

$l$  = elongation of the wire  
 $d$  = diameter of the wire

$$\Rightarrow \frac{\Delta Y}{Y} = 2 \frac{\Delta d}{d} + \frac{\Delta l}{l}$$

$$= 2 \left( \frac{0.01}{0.4} \right) + \frac{0.05}{0.8} = \frac{9}{40}$$

$$\Rightarrow \Delta Y = \frac{9}{40} \times Y = \frac{9}{40} \times 2 \times 10^{11} = 0.2 \times 10^{11} \text{ N/m}^2$$

$\therefore$  (B)

3. A particle moves in the X-Y plane under the influence of a force such that its linear momentum is  $\vec{p}(t) = A [\hat{i} \cos(kt) - \hat{j} \sin(kt)]$ , where A and k are constants. The angle between the force and the momentum is

- (A)  $0^\circ$  (B)  $30^\circ$  (C)  $45^\circ$  (D)  $90^\circ$

# Zim Mathematic Question Paper 2007

**Jicheng Xie**



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book is a valuable resource to policy makers educational administrators and researchers and the wider community Shizha and Kariwo's book is an important and illuminating addition on the effects of social political and economic trajectories on education and development in Zimbabwe It critically analyses the crucial specifics of the Zimbabwean situation by providing an in depth discourse on education at this historical juncture The book offers new insights that may be useful for an understanding of not only the Zimbabwean case but also education in other African countries Rosemary Gordon Senior Lecturer in Educational Foundations University of Zimbabwe Ranging in temporal scope from the colonial era and its elitist legacy through the golden era of populist universal elementary education to the disarray of contemporary socioeconomic crisis covering elementary through higher education and touching thematically on everything from the pernicious effects of social adjustment programmes through the local deprofessionalization of teaching this text provides a comprehensive wide ranging and yet carefully detailed account of education in Zimbabwe This engagingly written portrayal will prove illuminating not only to readers interested in Zimbabwe's education specifically but more widely to all who are interested in how the sociopolitical shapes education how ideology policy international pressures economic factors and shifts in values collectively forge the historical and contemporary character of a country's education Handel Kashope Wright Professor of Education University of British Columbia

**Engineering Design and Mathematical Modelling** Nnamdi Nwulu, Mammo Muchie, 2020-12-17 Engineering Design and Mathematical Modelling Concepts and Applications consists of chapters that span the Engineering design and mathematical modelling domains Engineering design and mathematical modelling are key tools techniques in the Science Technology and Innovation spheres Whilst engineering design is concerned with the creation of functional innovative products and processes mathematical modelling seeks to utilize mathematical principles and concepts to describe and control real world phenomena Both of these can be useful tools for spurring and hastening progress in developing countries They are also areas where Africa needs to skill up in order to build a technological base The chapters in this book cover the relevant research trends in the fields of both engineering design and mathematical modelling This book was originally published as a special issue of the African Journal of Science Technology Innovation and Development

*The Routledge Handbook of Disability in Southern Africa* Tsitsi Chataika, 2018-07-27 This comprehensive groundbreaking southern African centred collection spans the breadth of disability research and practice Reputable and emerging scholars together with disability advocates adopt a critical and interdisciplinary stance to prove challenge and shift commonly held social understanding of disability in traditional discourses frontiers and practices in prominent areas such as inter national development disability studies education culture health religion gender sports tourism ICT theatre media housing and legislation This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa Through drawing upon and introducing resources from several disciplines theoretical perspectives and personal narratives from disability activists it reflects on disability and sustainable development in southern Africa It also

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collaboration including a history and overview of the movement practical suggestions for implementing the collaborative process and ideas for overcoming common roadblocks to collaboration

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