

# IGCSE Physics Workbook

## Answers

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### ● 1 Measurement and motion

#### Core

- 1 a kilogram [1]  
b metre [1]  
c second [1]
- 2 a 20 [1]  
b 4 [1]  
c 120 [1]  
d 500 [1]  
e 1400 [1]
- 3 a 15.00 m [1]  
b 1.50 m [1]  
c 0.15 m [1]  
d 0.015 m [1]
- 4 a  $1 \times 10^2$  [1]  
b  $2.25 \times 10^5$  [1]  
c  $6.5 \times 10^2$  [1]  
d  $1.5 \times 10^4$  [1]
- 5 a 10 000 [1]  
b 250 [1]  
c 1 500 000 [1]  
d 350 000 000 [1]
- 6 a  $1 \times 10^{-2}$  [1]  
b  $2 \times 10^{-3}$  [1]  
c  $1.2 \times 10^{-2}$  [1]  
d  $1.02 \times 10^{-2}$  [1]
- 7 a i  $1 \times 10^{-3}$  [1]  
ii 0.01 [1]  
b i  $2 \times 10^{-2}$  [1]  
ii 0.002 [1]  
c i  $3 \times 10^{-4}$  [1]  
ii 0.0003 [1]  
d i  $8 \times 10^{-4}$  [1]  
ii 0.0008 [1]
- 8 a  $5 \times 10^{-3}$  m [1]  
b  $5 \times 10^{-4}$  m [1]  
c  $5 \times 10^2$  m [1]  
d 5 m [1]  
e  $5 \times 10^{-6}$  m [1]  
f  $5 \times 10^{-7}$  m [1]
- 9 a 3 [1]  
b 3 [1]  
c 2 [1]  
d 1 [1]  
e 2 [1]  
f 3 [1]
- 10 a 1 m [1]  
b 1.3 m [1]  
c 1.26 m [1]
- 11 yes [1]
- 12 27 cm<sup>2</sup> (do not accept 27.0 cm<sup>2</sup>) [1]
- 13 600 cm<sup>2</sup> [1]
- 14 75 [1]
- 15 1.6 s [1]
- 16 a 0.16 mm [1]  
b 2 g [1]
- 17 3 m/s [1]
- 18 a B [1]  
b C [1]  
c 5 m/s [1]
- 19 a i 270 m [1]  
ii no distance [1]  
iii 270 m [1]  
b 1.5 m/s [1]
- 20 a 4 m/s [1]  
b friction [1]

# Novanet Physics Answers

**G Orfield**



## **Novanet Physics Answers:**

**The Conference on Computers in Physics Instruction** Edward F. Redish, John S. Risley, 1990 Computers are revolutionizing activities in all areas of life Physics researchers accustomed to being at the forefront of technology have been deeply affected by the computer revolution This effect has serious implications for what is taught and how it is taught in the physics classroom This conference was organized to allow physics teachers and software developers in physics education to come together and see the state of the art in using computers to teach physics The conference included 39 invited lectures and 122 contributed presentations It introduced a number of innovations in the hope of increasing interactions and stimulating future contacts This document contains the text of the invited and contributed papers organized as follows 1 The Computer's Impact on the Physics Curriculum 2 Physics Computer Simulations 3 Computers in the Physics Laboratory 4 Physics Education Research and Computers 5 Computational Physics and Spreadsheets 6 Computer Tutorials in Physics 7 Physics Lecture Demonstrations Using Computers 8 Authoring Tools and Programming Languages 9 Computer Utilities for Teaching Physics 10 Computer Networking Workshops 11 Publishing Physics Software and 12 Videodiscs and Visualization for Physics Appended are author and general indexes a list of the contents of distributed software and a software order form

**CW Proceedings** American Society for Engineering Education. Conference, 1993 **Online Education Policy and Practice** Anthony G. Picciano, 2016-09-13 Online Education Policy and Practice examines the past present and future of networked learning environments and the changing role of faculty within them As digital technologies in higher education increasingly enable blended classrooms collaborative assignments and wider student access an understanding of the creation and ongoing developments of these platforms is needed more than ever By investigating the history of online education the rise and critique of MOOCs the mainstreaming of social media mobile devices gaming in instruction and more this expansive book outlines a variety of potential scenarios likely to become realities in higher education over the next decade *Annual Conference Proceedings* American Society for Engineering Education. Conference, 1993 American Journal of Physics, 1994 **Documentation Abstracts**, 1994 **Handbook of Psychology, Educational Psychology** Irving B. Weiner, William M. Reynolds, Gloria E. Miller, 2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology Fourth International World Wide Web Conference : the Web Revolution, December 11-14, 1995, Boston, Massachusetts, USA, 1995 **Resources in Education**, 1988 **National Center for Supercomputing Applications Access**, 1987 *Government Reports Announcements & Index*, 1988-07

**Government reports annual index** ,199?      Air & Space Smithsonian ,1995      **Answers to Questions About Origin Particles in Physics** Miroslav Halza,2019-05-29 Do energies produce objects or objects produce energies Albert Einstein set his career on revealing the secret mysticism It is Jewish mysticism written in the book Zohar Splendor or Radiance that interprets the biblical creation by slowing and extinguishing light In other words Zohar introduced mass energy equivalence matter is that light and relativity of time due to speed lost speed of that light has produced time Einstein just added mathematical formulas to those mystic theorems to be called scientific quantum theories Thus he has returned Physics back in the Dark Age that ruled before Newton the book Zohar written in the 2nd century On the contrary Halza applies just Newton style of physics onto particles existing on the smallest level Only motion of these particles may produce energy quantum of energy or energy in field Then it is the Newtonian physics of motion that proposes understanding of all existing particles and forces including dark energy and dark matter While materialistic explanations are going on in this publication all main questions about origin particles and origin forces including why does light have the constant speed and so on are answered

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