

# Answers to revision and practice exam questions

## Module 1

### Answers to revision questions

#### Revision questions 1 (page 34)

- 1 b i  $\text{kg m}^2 \text{s}^{-2}$  ii  $\text{m}^2 \text{s}^{-2} \text{K}^{-1}$   
 3  $\text{kg m}^2 \text{s}^{-1}$   
 4  $\text{kg m}^2 \text{s}^{-1}$   
 10 Horizontal component = 4.3 N,  
 vertical component = 2.5 N  
 11 a 14 N b 2 N c 10 N d 12.2 N  
 15 0.9%  
 16  $R = 12 \pm 3 \Omega$   
 17 i 3.3% ii 6.6%  
 18  $0.43 \pm 0.01 \text{ cm}$   
 21 a  $14 \text{ m s}^{-1}$  b  $0.65 \text{ m s}^{-2}$  c Approx. 350 m  
 22 a  $-5 \text{ m s}^{-2}$   
 23 a  $9 \text{ m s}^{-1}$  b 24.75 m c 13.4 s  
 24 a 9.5 m b  $6.2 \text{ m s}^{-1}$  c 1.53 s d 11.5 m  
 25 i  $4.3 \text{ m s}^{-1}$  ii  $2.5 \text{ m s}^{-1}$  v 0.32 m vi 0.255 s  
 vii 0.51 s viii 2.19 m  
 ix  $4.77 \text{ m s}^{-1}$   $25.6^\circ$  below the horizontal  
 26 b 158 N c  $3.68 \text{ m s}^{-2}$  d 188 N

#### Revision questions 2 (page 46)

- 1 b 0.23 N c  $4.6 \text{ m s}^{-2}$   
 3 c Kinetic energy = 1.875 J, momentum =  $1.5 \text{ kg m s}^{-1}$   
 4 a Approx. 3 N s c Approx.  $25 \text{ m s}^{-2}$   
 d Approx.  $50 \text{ m s}^{-2}$   
 6 c  $3 \text{ m s}^{-1}$  in the same direction as the 4 kg mass  
 9 a 785 N b 785 N  
 c  $0.122 \text{ N m}^{-2} \text{ s}^2$  d  $7.11 \text{ m s}^{-2}$   
 10 c i 18.6 N ii  $25.8 \text{ m s}^{-1}$  iii  $9.4 \text{ m s}^{-2}$   
 11 a 37.2 N b Approx.  $\frac{1}{2}(0.337)$   
 12  $T_1 = 5.6 \text{ N}$   $T_2 = 3.9 \text{ N}$   
 15 b 890 N c 170 N  
 17 19.4 N at  $64.6^\circ$  to the horizontal  
 18 a  $2.5 \times 10^4 \text{ J}$  b  $1.23 \times 10^3 \text{ J}$   
 c  $6.0 \times 10^4 \text{ J}$  d  $15.9 \text{ m s}^{-1}$

#### Revision questions 3 (page 58)

- 2 b i 15 360 J ii 14 126 J  
 iii 1234 J iv 206 N  
 5 b i 0.52 rad ii 2.44 rad  
 c i  $180^\circ$  ii  $90^\circ$   
 7 a  $2.4 \text{ rad s}^{-1}$  b 2.62 s  
 c  $2.88 \text{ m s}^{-2}$  d 2.45 N  
 8 44.4 N  
 9 a 16.4 N b 12.4 N  
 10 a  $41.9 \text{ rad s}^{-1}$  b  $1.05 \times 10^2 \text{ m s}^{-2}$   
 c 1.02 N d 1.02 N  
 11 a 1.52 Hz  
 12 b ii  $4.23 \times 10^2 \text{ m}$   
 14 a  $3.68 \times 10^4 \text{ N}$  b  $8.77 \text{ m s}^{-2}$   
 c  $7.70 \times 10^3 \text{ m s}^{-1}$   
 15  $1.31 \times 10^{-4} \text{ rad s}^{-1}$   
 16 i  $1.99 \times 10^{26} \text{ N}$  ii  $2.71 \times 10^{-13} \text{ m s}^{-2}$   
 v  $-2.71 \times 10^{-13} \text{ N kg}^{-1}$

#### Module 1 practice exam questions (page 60)

- 1 C 6 A  
 2 C 7 B  
 3 B 8 C  
 4 D 9 B  
 5 C 10 D  
 11 c i  $1.5 \pm 0.02$  ii  $4.1 \pm 0.1$   
 iii  $\{0.845 \pm 0.04\} \text{ g cm}^{-3}$   
 12 a  $6.12 \times 10^3 \text{ J}$  b  $4.17 \times 10^3 \text{ J}$   
 c  $15.6 \text{ m s}^{-1}$ ,  $F = 26.7 \text{ N}$   
 13 b ii  $1.84 \times 10^3 \text{ N}$  iii  $8.64 \times 10^3 \text{ N}$   
 iv  $1.29 \text{ m s}^{-2}$  v 126 m  
 vi  $1.46 \times 10^3 \text{ J}$  vii  $3.78 \times 10^3 \text{ J}$   
 14 c i 2.02 s ii  $90.9 \text{ m}$   
 iii  $49.2 \text{ m s}^{-1}$  at  $24^\circ$  below the horizontal  
 16 b  $9.74 \text{ N kg}^{-1}$   
 c ii  $0.22 \text{ N kg}^{-1}$  iii  $3.08 \times 10^3 \text{ m s}^{-1}$   
 iv  $0.22 \text{ m s}^{-2}$   
 18 c i  $4.4 \text{ m s}^{-1}$  ii 19.2 N

# Realtime Physics Module 1 Answers

**Brendan G. Carr**



## Realtime Physics Module 1 Answers:

*RealTime Physics: Active Learning Laboratories, Module 1* David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study

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*Reading English with Awareness - Level A* Yael Bejarano, 2003

Top Physics Grades for You Aqa Mod Keith Johnson, 2005 These full colour Revision Guides provide board specific support for GCSE Science and are designed specifically to raise standards

**Cambridge Learner's Dictionary** Cambridge University Press, Elizabeth Walter, 2004-01-26 Ideal for PET and FCE preparation The Cambridge Learner's Dictionary is the ideal dictionary for intermediate learners and for FCE preparation This new edition contains many features to make learning English even easier

**Subject Guide to Books in Print**, 1991

*The Handy Science Answer Book* James Bobick, Naomi E. Balaban, 2019-08-01 Informative easy to use guide to everyday science questions concepts and

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**Automation 2022: New Solutions and Technologies for Automation, Robotics and Measurement Techniques** Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2022-04-15 This book presents the unique result of discussion among interdisciplinary specialists facing recent industrial and economic challenges It contains papers authored by both scientists and practitioners focused on an interdisciplinary approach to developing measuring techniques robotic and mechatronic systems industrial automation numerical modelling and simulation and application of artificial intelligence techniques required by the transformation leading to Industry 4 0 We strongly believe that the solutions and guidelines presented in this book will be useful to both researchers and engineers facing problems associated with developing cyber physical systems for global development ,

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*Conference Record of the Eighth Conference on Real-Time Computer Applications in Nuclear, Particle and Plasma Physics, Vancouver, June 8-11, 1993* David Axen, Renée Poutissou, TRIUMF., 1993

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**Product Lifecycle Management to Support Industry 4.0** Paolo Chiabert, Abdelaziz Bouras, Frédéric Noël, José Ríos, 2018-12-08 This book constitutes the refereed post conference proceedings of the 15th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2018 held in Turin Spain in July 2018 The 72 revised full papers presented were carefully reviewed and selected from 82 submissions The papers are organized in the following topical sections building information modeling collaborative environments and new product development PLM for digital factories and cyber physical systems ontologies and data models education in the field of industry 4.0 product service systems and smart products lean organization for industry 4.0 knowledge management and information sharing PLM infrastructure and

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