

# 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 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

**Rachel S Tattersall**



## **Realtime Physics Module 1 Answers:**

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