

## Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) Each spring holds its brake pad retainer on the shaft at low speed. If the rotation speed is increased, the brake pad retainer moves away from the shaft and compresses the spring, which acts against the outward movement of the retainer. If the rotation speed is fast enough, the spring is unable to prevent the brake pad coming into contact with the collar. Friction between the brake pad and the collar prevents the shaft rotating any faster.	1 1 1 1	max 3 marks for (a)
(b) For no braking, the centripetal force $< 250 \text{ N}$  $\therefore m\omega_0^2 r = 250 \text{ N}$ at the maximum angular speed $\omega = 0.30 \text{ rad s}^{-1}$ $\omega_0^2 = \frac{250}{0.30} \times 0.060 = 1.39 \times 10^4 \text{ rad}^2 \text{ s}^{-2}$ $\omega_0 = 118 \text{ rad s}^{-1}$ Maximum frequency of rotation $= \frac{\omega_0}{2\pi}$ $= 19 \text{ Hz}$	1 1 1 1	When the centripetal force exceeds $250 \text{ N}$ the spring extends outwards and, as the gap is small, braking occurs.
(c) If the springs became weaker, the tension in the springs at which the brake pads touched the collar would be less ... ... so braking would occur at a lower rotation frequency. The lifeboat would descend at a lower speed, or more friction occurs.	1 1 1	max 2 marks for (c)
2 (a) <i>Relevant points include:</i> • Speed is the magnitude of velocity (or speed is a scalar but acceleration [or velocity] is a vector). • In circular motion at constant speed the direction of motion changes continuously. • Therefore the velocity is changing. • Acceleration is the rate of change of velocity.	3	Alternatively, this can be argued as follows: • speed is the magnitude of velocity (or speed is a scalar but acceleration [or velocity] is a vector) • force (or acceleration) acts towards the centre of the circle • force (or acceleration) is always perpendicular to the velocity (or has no component in the direction of the velocity) • so the force changes the direction of the velocity but not its magnitude

# Aqa A2 Physics Exam Style Questions Answers Chapter 12

**Ian Lovat**



## **Aqa A2 Physics Exam Style Questions Answers Chapter 12:**

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### **Table of Contents Aqa A2 Physics Exam Style Questions Answers Chapter 12**

1. Understanding the eBook Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - The Rise of Digital Reading Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Advantages of eBooks Over Traditional Books
2. Identifying Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Personalized Recommendations
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 User Reviews and Ratings

- Aqa A2 Physics Exam Style Questions Answers Chapter 12 and Bestseller Lists
- 5. Accessing Aqa A2 Physics Exam Style Questions Answers Chapter 12 Free and Paid eBooks
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 Public Domain eBooks
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 eBook Subscription Services
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 Budget-Friendly Options
- 6. Navigating Aqa A2 Physics Exam Style Questions Answers Chapter 12 eBook Formats
  - ePub, PDF, MOBI, and More
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 Compatibility with Devices
  - Aqa A2 Physics Exam Style Questions Answers Chapter 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Highlighting and Note-Taking Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Interactive Elements Aqa A2 Physics Exam Style Questions Answers Chapter 12
- 8. Staying Engaged with Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aqa A2 Physics Exam Style Questions Answers Chapter 12
- 9. Balancing eBooks and Physical Books Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aqa A2 Physics Exam Style Questions Answers Chapter 12
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Setting Reading Goals Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Fact-Checking eBook Content of Aqa A2 Physics Exam Style Questions Answers Chapter 12
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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