

- 1 A man of mass 70 kg stands on the floor of a lift which is moving with an upward acceleration of 0.3 m s^{-2} . Calculate the magnitude of the force exerted by the floor on the man. [4]

- 2 An ice skater of mass 40 kg is moving in a straight line with speed 4 m s^{-1} when she collides with a skater of mass 60 kg moving in the opposite direction along the same straight line with speed 3 m s^{-1} . After the collision the skaters move together with a common speed in the same straight line. Calculate their common speed, and state their direction of motion. [5]

- 3 Two horizontal forces X and Y act at a point O and are at right angles to each other. X has magnitude 12 N and acts along a bearing of 090° . Y has magnitude 15 N and acts along a bearing of 000° .
 - (i) Calculate the magnitude and bearing of the resultant of X and Y . [6]
 - (ii) A third force E is now applied at O . The three forces X , Y and E are in equilibrium. State the magnitude of E , and give the bearing along which it acts. [2]

- 4 The displacement of a particle from a fixed point O at time t seconds is $t^4 - 8t^2 + 16$ metres, where $t \geq 0$.
 - (i) Verify that when $t = 2$ the particle is at rest at the point O . [5]
 - (ii) Calculate the acceleration of the particle when $t = 2$. [3]

- 5 A car is towing a trailer along a straight road using a light tow-bar which is parallel to the road. The masses of the car and the trailer are 900 kg and 250 kg respectively. The resistance to motion of the car is 600 N and the resistance to motion of the trailer is 150 N.
 - (i) At one stage of the motion, the road is horizontal and the pulling force exerted on the trailer is zero.
 - (a) Show that the acceleration of the trailer is -0.6 m s^{-2} . [2]
 - (b) Find the driving force exerted by the car. [3]
 - (c) Calculate the distance required to reduce the speed of the car and trailer from 18 m s^{-1} to 15 m s^{-1} . [2]
 - (ii) At another stage of the motion, the car and trailer are moving down a slope inclined at 3° to the horizontal. The resistances to motion of the car and trailer are unchanged. The driving force exerted by the car is 980 N. Find
 - (a) the acceleration of the car and trailer. [4]
 - (b) the pulling force exerted on the trailer. [3]

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1. Understanding the eBook Ocr Biology A Moduleb7 Past Papers
 - The Rise of Digital Reading Ocr Biology A Moduleb7 Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Biology A Moduleb7 Past Papers
 - 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 Ocr Biology A Moduleb7 Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Biology A Moduleb7 Past Papers
 - Personalized Recommendations
 - Ocr Biology A Moduleb7 Past Papers User Reviews and Ratings
 - Ocr Biology A Moduleb7 Past Papers and Bestseller Lists
5. Accessing Ocr Biology A Moduleb7 Past Papers Free and Paid eBooks
 - Ocr Biology A Moduleb7 Past Papers Public Domain eBooks
 - Ocr Biology A Moduleb7 Past Papers eBook Subscription Services
 - Ocr Biology A Moduleb7 Past Papers Budget-Friendly Options
6. Navigating Ocr Biology A Moduleb7 Past Papers eBook Formats

- ePub, PDF, MOBI, and More
- Ocr Biology A Moduleb7 Past Papers Compatibility with Devices
- Ocr Biology A Moduleb7 Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Biology A Moduleb7 Past Papers
 - Highlighting and Note-Taking Ocr Biology A Moduleb7 Past Papers
 - Interactive Elements Ocr Biology A Moduleb7 Past Papers
- 8. Staying Engaged with Ocr Biology A Moduleb7 Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Biology A Moduleb7 Past Papers
- 9. Balancing eBooks and Physical Books Ocr Biology A Moduleb7 Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Biology A Moduleb7 Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Biology A Moduleb7 Past Papers
 - Setting Reading Goals Ocr Biology A Moduleb7 Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Biology A Moduleb7 Past Papers
 - Fact-Checking eBook Content of Ocr Biology A Moduleb7 Past Papers
 - 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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