

MARK SCHEME TEST 2

1 (a)	use of $a = -\omega^2 x$ clear either $\omega = \sqrt{(2k/m)}$ or $\omega^2 = (2k/m)$ $\omega = 2 \pi f$ $f = (1/2 \pi) \sqrt{(2 \times 300)/0.240)}$ $= 7.96 \approx 8 \text{ Hz}$	C1 B1 C1 B1 A0 [4]
(b)	(i) resonance (ii) 8 Hz	B1 [1] B1 [1]
(c)	(increase amount of) damping without altering (k or) m ... (some indirect reference is acceptable) sensible suggestion	B1 [1]
		Total [7]
2 (a)	Acceleration/ force proportional to displacement (from a fixed point) either acceleration and displacement in opposite directions or acceleration always directed towards a fixed point	M1 A1 [2]
(b) (i)	Zero & 0.625 s or 0.625 s & 1.25 s or 1.25 s & 1.875 s or 1.875 s & 2.5 s	A1 [1]
(ii)	1. $\omega = 2\pi/T$ and $v_0 = \omega x_0$ $\omega = 2\pi/1.25$ $= 5.03 \text{ rad s}^{-1}$ $v_0 = 5.03 \times 3.2$ $= 16.1 \text{ cm s}^{-1}$ (allow 2 s.f.)	C1 C1 A1 [3]
2.	$v = \omega \sqrt{(x_0^2 - x^2)}$ either $\frac{1}{2} \omega x_0 = \omega \sqrt{(x_0^2 - x^2)}$ or $\frac{1}{2} \times 16.1 = 5.03 \sqrt{(3.2^2 - x^2)}$ $x_0^2/4 = x_0^2 - x^2$ $2.58 = 3.2^2 - x^2$ $x = 2.8 \text{ cm}$ $x = 2.8 \text{ cm}$	C1 A1 [2]
(c)	sketch loop with origin at its centre correct intercepts & shape based on (b)(ii)	M1 A1 [2]
		Total [10]

Ocr November 2014 Paper 2 Mark Scheme

Mike Jess

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Mike Jess' text.

Ocr November 2014 Paper 2 Mark Sceme:

The Enigmatic Realm of **Ocr November 2014 Paper 2 Mark Sceme**: Unleashing the Language is Inner Magic

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Table of Contents Ocr November 2014 Paper 2 Mark Sceme

1. Understanding the eBook Ocr November 2014 Paper 2 Mark Sceme
 - The Rise of Digital Reading Ocr November 2014 Paper 2 Mark Sceme
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr November 2014 Paper 2 Mark Sceme
 - 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 November 2014 Paper 2 Mark Sceme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr November 2014 Paper 2 Mark Sceme
 - Personalized Recommendations
 - Ocr November 2014 Paper 2 Mark Sceme User Reviews and Ratings
 - Ocr November 2014 Paper 2 Mark Sceme and Bestseller Lists

5. Accessing Ocr November 2014 Paper 2 Mark Sceme Free and Paid eBooks
 - Ocr November 2014 Paper 2 Mark Sceme Public Domain eBooks
 - Ocr November 2014 Paper 2 Mark Sceme eBook Subscription Services
 - Ocr November 2014 Paper 2 Mark Sceme Budget-Friendly Options
6. Navigating Ocr November 2014 Paper 2 Mark Sceme eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr November 2014 Paper 2 Mark Sceme Compatibility with Devices
 - Ocr November 2014 Paper 2 Mark Sceme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr November 2014 Paper 2 Mark Sceme
 - Highlighting and Note-Taking Ocr November 2014 Paper 2 Mark Sceme
 - Interactive Elements Ocr November 2014 Paper 2 Mark Sceme
8. Staying Engaged with Ocr November 2014 Paper 2 Mark Sceme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr November 2014 Paper 2 Mark Sceme
9. Balancing eBooks and Physical Books Ocr November 2014 Paper 2 Mark Sceme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr November 2014 Paper 2 Mark Sceme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr November 2014 Paper 2 Mark Sceme
 - Setting Reading Goals Ocr November 2014 Paper 2 Mark Sceme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr November 2014 Paper 2 Mark Sceme
 - Fact-Checking eBook Content of Ocr November 2014 Paper 2 Mark Sceme
 - 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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