

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 <u>&</u> 0.625 s or 0.625 s <u>&</u> 1.25 s or 1.25 s <u>&</u> 1.875 s or 1.875 s <u>&</u> 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 $\frac{1}{2} \times 16.1 = 5.03 \sqrt{(3.2^2 - x^2)}$ $x_0^2/4 = x_0^2 - x^2$ $x = 2.8 \text{ cm}$	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

Е. Г. Кошкина

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 author's name.

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Religious Education in the Secondary School James D. Holt, 2014-12-08 Religious Education in the Secondary School is a comprehensive straightforward introduction to the effective teaching of Religious Education in the secondary classroom Acknowledging the highly valuable yet often misunderstood contribution of RE this text shows how the subject can be taught in a way that explores the impact of religion on the lives of people and society engaging pupils and preparing them to become individuals who celebrate and respect diversity It is illustrated throughout with ideas for teaching at different key stages and offers expert chapters introducing you to both the World Religions and the core aspects of effective teaching and learning With an emphasis on developing an understanding of the importance and different ways of meeting the learning needs of all pupils key chapters cover Understanding different pedagogies of RE Spirituality and RE Tips on effective planning and assessment An approach to teaching across the Key Stages Core subject knowledge in Buddhism Christianity Hinduism Islam Judaism and Sikhism Written by an experienced teacher teacher educator and examiner Religious Education in the Secondary School is a succinct compendium and has a real classroom applicability offering all trainee RE teachers as well as those teaching Religious Education as specialists or non specialists a wealth of support and inspiration

Management, Information and Educational Engineering Hsiang-Chuan Liu, Wen-Pei Sung, Wenli Yao, 2015-06-11 This book contains selected Computer Management Information and Educational Engineering related papers from the 2014 International Conference on Management Information and Educational Engineering MIEE 2014 which was held in Xiamen China on November 22 23 2014 The conference aimed to provide a platform for researchers engineers and academic

Пространство научных интересов: иностранные языки и межкультурная коммуникация - современные векторы развития и перспективы Е. Г. Кошкина, 2019-01-01 IV 11 04 2019 3 2019 602 Communication current and future research challenges Kultur und Landeskunde von deutschsprachigen Ländern La France langue et culture

Cone Penetration Testing 2022 Guido Gottardi, Laura Tonni, 2022-06-23 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the

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