

Physics A Phya5 1 Aqa

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Physics A Phya5 1 Aqa MARK SCHEME - A-LEVEL PHYSICS - PHYA5/1 - JUNE 2016 3 of 12 Question Answers Additional Comments/Guidance Mark ID details 1(a)(i) momentum ($= E/c$) = $5.94 \times 10^{-11} / 3.00 \times 10^8 = 2.0 \times 10^{-19} \text{ (kg m s}^{-1}\text{)}$ ($= 1.98 \times 10^{-19} \text{ kg m s}^{-1}$) Or evidence of use of $E = hc / \lambda = (h / mv = 6.63 \times 10^{-34} / 1.98 \times 10^{-19}) = 3.35 \times 10^{-15} \text{ (m)}$ A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear

... WMP/Jun12/PHYA5/1 Do not write outside the box 1 An electrical immersion heater supplies 8.5kJ of energy every second. Water flows through the heater at a rate of 0.12kgs⁻¹ as shown in Figure 1. Figure 1 1 (a) Assuming all the energy is transferred to the water, calculate the rise in temperature of the water as it flows through the heater. Physics A

PHYA5/1 WMP/Jun14/PHYA5/1 Do not write outside the box 2 The carbon content of living trees includes a small proportion of carbon-14, which is a radioactive isotope. After a tree dies, the proportion of carbon-14 in it decreases due to radioactive decay. Physics A

PHYA5/1 WMP/Jun11/PHYA5/1 Do not write outside the box 1 The fissile isotope of uranium, $^{233}_{92}\text{U}$, has been used in some nuclear reactors. It is normally produced by neutron irradiation of thorium-232. An irradiated thorium nucleus emits a β^- particle to become an isotope of protactinium. This isotope of protactinium may undergo β^- decay to become $^{233}_{92}\text{U}$. Physics A PHYA5/1 MARK SCHEME - A-LEVEL

PHYSICS - PHYA5/1 - JUNE 15 5 of 10 = $u / 4/3 (r 0) 3$ top line = 1.66×10^{-27} bottom line = $4/3 (1.43 \times 10^{-15})$ for one substitution density = $1.4 \times 10^{17} (1.37 \times 10^{17}) \text{ kg}$

m-3 would need $u / 4/3 (r 0) 3$ as well to gain the mark. Expect a large spread of possible answers. For example A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear ... Physics A PHYA5/1R Unit 5 Nuclear and Thermal Physics Section A Thursday 18 June 2015 9.00am to 10.45am F-0 2'(1 . . \$0 7-3 +312 ' 4\$: a calculator a pencil and a ruler a question paper/answer book for Section B (enclosed). T(+ \$ ** -5 \$ # The total time for both sections of this paper is 1 hour 45 minutes. Physics A PHYA5/1R Mark Scheme - General Certificate of Education (AS-level) Physics A - PHYA5-1 - June 2014 4 of 12 loss of mass ($= E / c^2$) = $2.91 \times 10^{11} / (3.00 \times 10^8)^2 = 3.4 \times 10^{28}$ (kg) A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear ... A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear and Thermal June 2014 Author: AQA Subject: A-level Physics A Keywords: A-level Physics A; 2450; MS; PHYA5; ; 2014; Mark scheme Created Date: 4/10/2015 3:02:43 PM A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear ... Home > Past Papers > A-Level Physics Papers > AQA Unit 5 (PHYA5) AQA Unit 5 (PHYA5) Lockdown revision never really happened? Our online Physics A-level refresher courses on 25-27 August will review Year 12 content, getting you ready for September. ... June 2011 MS - Unit 5-1 AQA Physics A-level; June 2011 MS - Unit 5-2A AQA Physics A ... Unit 5 Papers - AQA Physics A-level - Physics & Maths Tutor AQA retains the copyright on all its publications. However, registered schools/colleges for AQA are permitted to copy material ... Physics A - PHA5D - June 2013 3 . Section A - Nuclear and Thermal Physics . Question . Part . Sub Part Marking Guidance . Mark . Comments . 1 1/12 the mass of an (atom) of (a) /

carbon (i) 6 ^{12}C -12 / C12 1 . a ... General Certificate of Education (A-level) June 2013 GCE Physics, Specification A, PHYA5/2D, Turning Points in Physics 1 a force due to electric field acts (vertically) downwards on electrons \square vertical (component) of velocity of each electron increases \square 3 horizontal (component of) velocity unchanged (so angle to initial direction increases \square General Certificate of Education (A-level) June 2012 Mark Scheme $\text{\textcircled{C}}$ General Certificate of Education (A-level) Physics A $\text{\textcircled{C}}$ PHYA5/2A $\text{\textcircled{C}}$ June 2011 5 Question 3 a 4 peak 8.7 (accept 8.0 $\text{\textcircled{C}}$ 9.2) ! in MeV ! (or peak 1.4×10^{12} accept $1.3 \text{\textcircled{C}} 1.5 \times 10^{12}$! in J !) at nucleon number 50 $\text{\textcircled{C}}$ 60 ! accept 50 $\text{\textcircled{C}}$ 75 sharp rise from origin and moderate fall not below 2/3 of peak height ! General Certificate of Education (A-level) June 2011 Physics A PHYA5/1 Unit 5 Nuclear and Thermal Physics Section A Thursday 19 June 2014 9.00am to 10.45am Question Mark For Examiner's Use Examiner's Initials TOTAL. WMP/Jun14/PHYA5/1 Do not write outside the box ... $\ddot{\text{ı}}$ AQA-PHYA51-QP-Jun14_ $\ddot{\text{ı}}$ AQA-PHYA51-W-QP-Jun11.qxd Author: admin Physics A PHYA5/1 - Animated Science WMP/Jun13/PHYA5/1 Do not write outside the box 3 A cola drink of mass 0.200kg at a temperature of 3.0°C is poured into a glass beaker. The beaker has a mass of 0.250kg and is initially at a temperature of 30.0°C. specific heat capacity of glass = 840Jkg⁻¹K⁻¹ specific heat capacity of cola = 4190Jkg⁻¹K⁻¹ 3 (i) Show that the final temperature, T_f, of the cola drink is about 8°C when ... Physics A PHYA5/1 MARK SCHEME - A-LEVEL PHYSICS - PHYA5/2AR - JUNE 2015 4 of 9 Allow use of factor of 1.22 1 (b) (ii) angular resolution = λ / D $D = 1 \times 10^{-6} / 3.3 \times 10^{-7}$ $D = 3.0 \text{ m}$ 2 sf needed Allow 1 sf if

justified by discussion of approximate nature of calculation. 2 The first 1 (c) Minimum angular resolution is better/smaller than the size of A-level Physics A Mark scheme Unit 05 - Section 2A ... The Assessment and Qualifications Alliance (AQA) is a company limited by guarantee registered in England and Wales (company number 3644723) and a registered charity (registered charity number 1073334). ... GCE Physics, Specification A, PHYA5/1, Nuclear and Thermal Physics . General Certificate of Education (A-level) June 2011 WMP/Jun10/PHYA5/2C Do not write outside the box 3 (a) The coefficient of performance of a refrigerator is given by With reference to a refrigerator, explain the terms Q_{in} and Q_{out} . (2 marks) 3 (b) A refrigerator is designed to make ice at -10°C from water initially at room temperature. The energy needed to make 1.0kg of ice at -10°C from water initially at Physics A PHYA5/2C WMP/Jun14/PHYA5/2C (08) Do not write outside the box 3 Figure 2 shows a theoretical engine cycle in which a fixed mass of ideal gas is taken through the following processes in turn: A \rightarrow B: isothermal compression from volume $1.20 \times 10^{-3}\text{m}^3$ and pressure $1.0 \times 10^5\text{Pa}$ to a volume $0.25 \times 10^{-3}\text{m}^3$ and maximum pressure of $4.8 \times 10^5\text{Pa}$. B \rightarrow C: expansion at constant pressure with heat addition of 235J Physics A PHYA5/2C AQA retains the copyright on all its publications. However, registered schools/colleges for AQA are permitted to copy material from this ... MARK SCHEME - AS PHYSICS - 7407/1 - JUNE 2016 7 of 16 01.7 rate of intake of air decreases (as plane slows) OR 1 1 1 1 1 AS Physics Mark scheme Paper 1 June 2016 - AQA AQA A Physics

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