

# 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 ( $= E/c$ ) =  $5.94 \times 10^{-11} / 3.00$   
 $10^8 = 2.0 \times 10^{-19} \text{ (kg m s}^{-1}\text{)}$  ( $= 1.98 \times 10^{-19} \text{ kg m s}^{-1}$ ) 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<sup>-1</sup> 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/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<sup>-1</sup>K<sup>-1</sup> specific heat capacity of cola = 4190Jkg<sup>-1</sup>K<sup>-1</sup> 3 (i) Show that the final temperature,  $T_f$ , of the cola drink is about 8°C when ... 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  $\beta^-$  particle to become an isotope of protactinium. This isotope of protactinium may undergo  $\beta^-$  decay to become  $^{233}_{92}\text{U}$ .

U. Physics A PHYA5/1 MARK SCHEME - A-LEVEL PHYSICS - PHYA5/1 - JUNE 2017 8 of 11 Question Answers Additional Comments/Guidance Mark ID details 4 (a) (i) (use of mean kinetic energy =  $\frac{3}{2} k T$ )  
 $= \frac{3}{2} \times 1.38 \times 10^{-23} \times (273 + 25.0)$   $6.17 \times 10^{-21}$  (J)  
2 4 (a) (ii) total internal energy =  $6.17 \times 10^{-21} \times 1.50 \times 6.02 \times 10^{23} = 5.57 \times 10^3$  (J) AQA Minutes Template - Physics Revision for AQA Physics A PHYA5/1R Unit 5 Nuclear and Thermal Physics Section A Thursday 18 June 2015 9.00 am to 10.45 am 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 - 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 3 10-15) for one substitution density = 1.4 1017 (1.37 1017) 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 - 1 - Nuclear and Thermal Physics. Mark scheme. 2450. June 2014. Version: 1.0 Final. Mark schemes are prepared by the Lead Assessment Writer and considered,

together with the relevant questions, by a panel of subject teachers. A-level Physics A Mark scheme Unit 05 - Section 1 Nuclear ... 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 . Physics A PHYA5/2A (Specification 2450) Unit 5/2A ... 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)  $6^{12}\text{C}$ -12 /  $\text{C}^{12}$  1 . a ... General Certificate of Education (A-level) June 2013 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 ... MARK SCHEME - A-LEVEL PHYSICS - PHYA5/2AR - JUNE 2015 4 of 9 Allow use of factor of 1.22 1 (b) (ii) angular resolution =  $\lambda / D$   $D = 1 \times 10^{-6} / 3.3 \times 10^{-7}$   $D = 3.0 \text{ m}$  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/Jun12/PHYA5/2B Do not write outside the box 3 (a) Figure 1 shows the cross-section through a clad optical fibre which has a core of refractive index 1.50. Figure 1 Complete the graph below to show how the refractive index changes with the radial Physics A PHYA5/2B Mark Scheme © General Certificate of Education (A-level) Physics A © PHYA5/2A



⊕ June 2011 5 Question 3 a 4 peak 8.7 (accept 8.0 ⊕ 9.2) ! in MeV ! (or peak  $1.4 \times 10^{12}$  accept  $1.3 \oplus 1.5 \times 10^{12}$ ! in J !) at nucleon number 50 ⊕ 60 ! accept 50 ⊕ 75 sharp rise from origin and moderate fall not below 2/3 of peak height ! General Certificate of Education (A-level) June 2011 Mark Scheme - General Certificate of Education (A-level) Physics A - PHYA5/2B - June 2012 4 GCE Physics, Specification A, PHYA5/1, Nuclear and Thermal Physics . 1 a 2 17 K 1 b F G 2 t = 15 s 2 a ( X Pb e + + ) 0-1 206 82 206 76 o u u b b b n 1  $\beta = 6 2$  b i the energy required to split up the nucleus A-level Physics Mark scheme Unit 05 - Sections 1 and 2B ... WMP/Jun10/PHYA5/1 Do not write outside the box Section A The maximum mark for this section

is 40 marks. You are advised to spend approximately 55 minutes on this section. 1 Molten lead at its melting temperature of  $327^{\circ}\text{C}$  is poured into an iron mould where it solidifies. The temperature of the iron mould rises from  $27^{\circ}\text{C}$  to  $84^{\circ}\text{C}$ , at which the Physics A PHYA5/1 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 Tài liệu về Vật lý A level:AQA PHYA4 1 QP JUN12 - Tài liệu , Vat ly A level:AQA PHYA4 1 QP JUN12 - Tai lieu tại 123doc - Thư viện trực tuyến hàng đầu Việt Nam ...

where appropriate. For this paper you must have: a calculator, a ruler, a Data and Formulae Booklet (enclosed). Physics A PHYA5/2B Unit ... WMP /Jun12/ PHYA5 ...

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