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GCE A LEVEL – **NEW**

A420U10-1



**PHYSICS – A level component 1**  
**Newtonian Physics**

**THURSDAY, 15 JUNE 2017 – MORNING**

**2 hours 15 minutes**

		For Examiner's use only		
		Question	Maximum Mark	Mark Awarded
Section A		1.	8	
		2.	16	
		3.	12	
		4.	12	
		5.	12	
		6.	20	
Section B		7.	20	
		Total	100	

**ADDITIONAL MATERIALS**

In addition to this examination paper, you will require a calculator and a **Data Booklet**.

**INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen.

Answer **all** questions.

Write your name, centre number and candidate number in the spaces at the top of this page.

Write your answers in the spaces provided in this booklet. If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

**INFORMATION FOR CANDIDATES**

This paper is in 2 sections, **A** and **B**.

Section **A**: 80 marks. Answer **all** questions. You are advised to spend about 1 hour 35 minutes on this section.

Section **B**: 20 marks. Comprehension. You are advised to spend about 40 minutes on this section. The number of marks is given in brackets at the end of each question or part-question.

The assessment of the quality of extended response (QER) will take place in question 5(a).

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**Biology** Martin Rowland, 1992 Bath Advanced Science Biology is a well respected course book providing extensive coverage for Advanced Level Biology courses Fully illustrated in colour the high quality material will capture students interest and aid their learning

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knowledge and practice and revisions to the national curriculum Written by experienced practitioners this popular textbook comprehensively covers the opportunities and challenges of teaching science in the secondary school It provides guidance on the knowledge and skills you need and understanding the science department at your school development of the science curriculum the nature of science and how science works biology chemistry physics and astronomy earth science planning for progression using schemes of work to support planning and evaluating lessons language in science practical work using ICT science for citizenship Sex and Health Education and learning outside the classroom assessment for learning and external assessment and examinations Every unit includes a clear chapter introduction learning objectives further reading lists of useful resources and specially designed tasks including those to support Masters Level work as well as cross referencing to essential advice in the core text Learning to Teach in the Secondary School sixth edition Learning to Teach Science in the Secondary School is designed to support student teachers through the transition from graduate scientist to practising science teacher while achieving the highest level of personal and professional development     The Media Teacher's Handbook Elaine Scarratt, Jon Davison, 2012-03-15 The Media Teacher s Handbook is an indispensable guide for all teachers both specialist and non specialist delivering Media Studies and media education in secondary schools and colleges It is the first text to draw together the three key elements of secondary sector teaching in relation to media study the theoretical the practical and the professional in order to support media teachers throughout their careers Section One Contexts explores the history of rationale for and justification of studying the media from 1900 to the present day and considers the tensions implicit in the subject caused by opposing views of culture Section Two Curriculum comprises seven chapters that focus on studying the media from Key Stages 3 and 4 in English through GCSE and A Level Media Studies It also explores approaches to teaching the Creative and Media Diploma media and citizenship and practical media production Section Three Career Development is designed to support those establishing and leading Media Studies departments and those who are charged with the initial preparation and professional development of teachers Written by experts involved in the teaching training and examination of Media Studies this one stop resource is packed with illustrative case studies and exemplar schemes of work which can be easily adapted for your own needs Suggested Reading and Recommended Resources sections at the end of each chapter list additional books films DVDs groups agencies organisations contact details websites and other materials which will support your teaching even further The Media Teacher s Handbook is an essential guide to the theory pedagogy and practice of media education that will enable you to teach your subject expertly and with confidence     *Parliamentary Debates (Hansard), Official Report, 6th Series* Great Britain. Parliament. House of Commons, 1986 Contains debates from the 2d session of the 48th Parliament through the session of the Parliament     The Times Index , 2009 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement     **Parliamentary Debates (Hansard).** Great Britain. Parliament. House of

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