



General Studies

Advanced GCE A2 H479

Advanced Subsidiary GCE AS H079

Mark Schemes for the Units

June 2009

HX79/MS/R/09

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All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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F731 The Cultural and Social Domains

Guidance for Examiners

Do not use ticks in sections B and D. It is essential that your annotations show clearly why marks have been awarded or withheld.

Yes	recognises a point worthy of credit
Dev	a developed point or development of a point
No	a content error
NAQ	not answering the question
eg	appropriate example
Sp/G/Eng	spelling, grammar and language error; you are not expected to correct all of them
()	indicates a choice or a key phrase OR
Key	written beside an underlined choice or key phrase
Rubric	rubric infringement
D	description
R	reason
Rep	repetition, often of the question
Ev	evaluation

Stages to an essay mark

Read and annotate **<u>fully</u>** the candidate's response, using any question specific annotations agreed at Standardisation

Review your annotation and then consider in which level the answer is located.

Consider its position within the level and a possible mark.

Fine tune the mark by considering the Assessment Objectives.

Write a full summative comment using the AO statements from the Generic Mark Descriptors as a comment bank.

- eg AO1 good knowledge very limited knowledge and eg
 - AO2 examples given
 - AO3 personal experience relevant restricted personal experience
 - AO4 clearly written inaccurate Spg

You may make comments additional to the AO statements but **NOT** instead of them. Such comments must be positive and specific, eg *excellent use of specialist knowledge AO1*, *notable for clarity and elegance AO4*, *some unusual egs well developed, well integrated AO2*, *the inclusion of personal experience and different perspectives AO3*.

Enter the final mark in a circle.

If bullet points are used where continuous prose is asked for, a maximum of 20 marks is available for a 30-mark question.

Generic Mark Scheme for essay questions worth 30 marks

	Level Descriptor	
AO1	The candidate demonstrates the	Marks
	following abilities where appropriate to:	
Level 5	select, use and integrate a very good range of relevant knowledge	8
Level 5	 show a good understanding of the concepts involved 	o
Level 4	select, use and integrate a good range of relevant knowledge	6-7
Level 4	 show an understanding of the concepts involved 	0-7
Level 3	 select, use and integrate a range of relevant knowledge 	4-5
Level 5	 show an adequate understanding of the concepts involved 	4-0
Level 2	 select, use and integrate a limited range of relevant knowledge 	2-3
Level Z	show a modest understanding of the concepts involved	2-3
Level 1	• select, use and integrate some knowledge which may not be accurate	1
Level I	show a restricted understanding of the concepts involved.	
	Level Descriptor	
AO2	The candidate demonstrates the	
	following abilities where appropriate to:	
	• interpret and analyse issues and problems well and evaluates them	
Level 5	appropriately	9-10
	 use evidence to develop complex reasoned arguments and draw sound conclusions on the evidence 	
	 interpret and analyse issues and problems well and evaluates them competently 	
Level 4	 use evidence to develop reasoned arguments and draw sound 	7-8
	conclusions on the evidence	
	 undertake some interpretation and analysis of issues and problems 	+
Level 3	and make a superficial evaluation	5-6
	 use evidence to develop arguments and draw conclusions 	
	 demonstrate limited interpretation and analysis of issues and problems 	1
	with limited evaluation	24
Level 2	 use evidence to develop limited arguments and draw limited 	3-4
	conclusions	
	demonstrate poor interpretation and analysis of issues, problems and	
Level 1	evaluation	1-2
	 recognise arguments and conclusion. 	

AO3	Level Descriptor The candidate demonstrates the following abilities where appropriate to:	Marks
Level 4	 demonstrate good awareness of the differences between types of knowledge have a good appreciation of the strengths and limitations of the different types of knowledge 	4
Level 3	 demonstrate awareness of the differences between types of knowledge have an appreciation of the strengths and limitations of the different types of knowledge 	3
Level 2	 demonstrate awareness of the differences between types of knowledge have an appreciation of the strengths and limitations of the different types of knowledge 	2
Level 1	 demonstrate a restricted awareness of the differences between types of knowledge have little appreciation of the strengths and limitations of the different types of knowledge. 	1
AO4	Level Descriptor The candidate demonstrates the following abilities where appropriate to:	
Level 5	 communicate complex ideas clearly and accurately, using specialist vocabulary where appropriate, in a concise, logical and relevant way use a wide range of the rules of grammar, punctuation and spelling with accuracy and facility 	8
Level 4	 communicate ideas clearly and accurately, using specialist vocabulary where appropriate, in a concise, logical and relevant way Use a range of the rules of grammar, punctuation and spelling with accuracy and facility 	6-7
Level 3	 communicate clearly, using some specialist vocabulary with facility use some of the rules of grammar, punctuation and spelling with facility 	4-5
Level 2	 communicate ideas with limited clarity, using some specialist vocabulary use some rules of grammar, punctuation and spelling 	2-3
Level 1	 communicate with little clarity using occasional specialist terms use poor grammar and punctuation, and inaccurate spelling. 	1

Section A		
Question Number	Answer	Marks
<u>Number</u> 1 (a)	Consider the images in <u>Source 1</u> . For each, identify <u>three</u> features of the creative process which has led to the successful work of art. Candidates should make reference to techniques and processes in a	
	general way to inform the examiner. <i>A-sculpture</i> – sketches, size, type of material tools, life study, size and	[3]
	proportion, choice of tools, what is to be conveyed <i>B-painting</i> - lighting, type of paint (mixtures/hues) brushes, painting	[3]
	surface, choice of medium, subject matter, brushes, composition <i>C-photograph</i> – type of film, lens, filter, lighting, composition, printing paper	[3]
	<i>D-musical score</i> – harmony and voicing of instruments, timbre, placing of notes, structural awareness, sense of audience	[3]
	The following features may apply to all art forms:	
	skillsinspiration	
	 imagination attention to detail 	
	patience	
	 vision sense of perspective 	
	 sense of perspective individuality. 	
	Examiners can allow repetition. Three features of the creative process from each image @ 1 mark each.	
(b)	Briefly explain George Davies' 'style secrets' as listed in <u>Source 2</u> .	[6]
	 Look for a fashionable and striking piece of clothing that has some longevity – this might be due to its shape or colour or the fact that it is a version of an established item such as jeans. Always try to look your best and not simply save all of your best clothes for those special occasions (therefore it is not worn);take 	
	 care of everything Advice against wearing many worthy items of fashion which may usurp each other or conflict. Choose one special piece that will be truly outstanding and catch the eye. 	
	Award up to 2 marks for each 'secret' depending on the quality of the description and extent of the ideas. Annotate using ticks (\checkmark).	

Question Number	Answer	Marks
(c)	How might <u>one</u> of the style secrets in <u>Source 2</u> be applied to the work of an artist with whose work you are familiar?	[6]
	Candidates should identify an artist and/or work. They may refer to how well the work or artist is accepted and how popular they are. They may also refer to new techniques and methods, how they are adapted and become effective.	
	Choice of person can be one known to the candidate or a famous person or celebrity. It will be necessary to justify points made and not simply describe the person.	
	Award 1 mark for every valid point up to a maximum of six.	
	Examiners must be flexible in judging the choices made by candidates. The marks are to be awarded for the work of the chosen person not their personal characteristics.	
(d)	With reference to specific examples, identify <u>two</u> major external influences that dictate change in the Arts.	[6]
	Candidates may choose influences such as: • a specific fashion designer	
	 a style of music a film or television programme that gives birth to or rejuvenates a fashion an individual 	
	a historic event.	
	This list is only for example purposes. There are many other acceptable influences that can be drawn from the world of politics, science, society, the economy and the arts.	
	Award one mark for identification and up to two marks for justification or details given to the identification or examples.	
	Annotate using I1, I2, D for development, eg for examples.	

Section A Total [30]

Marks

[30]

Question	Answer
Number 2	To what extent do you agree with the statement 'knowledge is power
2	To what extent do you agree with the statement knowledge is power
	The essay is in two parts and candidates will need to tackle both parts full in order to access the highest marks.
	 understanding the idea of 'knowledge is power' assessing the extent that the candidate agrees.
	What is knowledge?
	 experience, expertise or skills acquired by a person through experience or education theoretical or practical understanding of a subject facts and awareness gained by experience the confident understanding of a subject with a view to using it for a specific purpose.
	 Knowledge involves: perception learning communication association reasoning.
	A statement must be justified, true, and believed.
	 Possible origins of knowledge cited: family, friends, school books, the internet, and all forms of media
	hearsay and rumour roligious policife
	 religious beliefs personal experience and discovery.
	The statement is open to many interpretations and could be developed in the personal, national, or even historical context.
	 Some examples of knowledge in the context of power a prime minister has the knowledge to determine whether a war should be declared
	 an, as yet, un accused criminal knows that he/she has committed the crime
	 a judge's knowledge of the law enables him to convict or release a teacher knows the answers to tests
	 the adjudicator knows which sealed box is in the hands of the contestant. power in the context of the medical profession.
	This open-ended style question allows excellent opportunity for candidate to collect AO3 marks by using their personal experience to develop a reasoned and cogent response.

Section B		
Question Number 2	Answer	Marks
	The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will clearly tackle the issue of knowledge and place it in a clear framework (AO1) by using complex reasoning and a good understanding of views (AO2). There will be evidence of personal opinion and/or experience to support ideas (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will tackle the issue of knowledge with some success (AO1) by using relevant ideas and reasoning and some understanding of views (AO2). There will be evidence of personal opinion and/or experience to support ideas (AO3) as well as clear communication (AO4).	21-26
	Level 3 answers will show some understanding of the concept of knowledge and provide an adequate overview of the quotation (AO1). The analysis and examples will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20
	Level 2 answers will concentrate on one simple definition or issue and fail to adequately support the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly not be linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7

Section B		
Question Number	Answer	Marks
3	Outline and discuss <u>two</u> ways in which publishers have made magazines and periodicals more appealing to readers. You should refer to named examples of magazines or periodicals in your answer.	[30]
	If there is a request to show how magazines and periodicals have been made more attractive in recent years then it would seem to be necessary to offer some idea as to what they used to be like.	
	Magazines and periodicals originally were:	
	 expensive contained sometimes unreliable information that was out of date contained few pictures were largely black and white printed on low density paper confined to minority interest groups or exclusively female. 	
	Publishers have tried to improve their work by:	
	 publishing more regularly with less emphasis on actuality and more on post-event debate being full of pictures printing in full colour on high quality (density) shiny paper appealing to male and female readers focusing on leisure, fashion, music and celebrities uncovering and exposing scandalous topics and outrageous stories having less respect for people's sensibilities by publishing shocking images offer many 'freebies' and give-aways posting the magazine or periodicals on the internet. 	
	It would be impossible to complete a successful essay without clear reference to a magazine or periodical. Examiners may be faced with a narrow range of titles but to answer the essay very well it may require a wider ranging set of references and discussion.	
	Annotate using W1,W2 for ways	

Section B	-	
Question Number 3	Answer	Marks
	The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will look at the wider issues of how publishers have tackled a changing market (AO1) by using complex reasoning and a good understanding of views, as well as clearly illustrative examples (AO2). There will be evidence of personal opinion and/or experience or preference to support ideas (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will look at some of the wide issues of how publishers have tackled a changing market (AO1) by showing an understanding of views as well as some examples (AO2). There will be some evidence of personal opinion and/or experience or preference to support ideas (AO3) as well as clear communication (AO4)	21-26
	Level 3 answers will show some understanding of the ways publishers have tackled issues with perhaps one example (AO1). The analysis will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20
	Level 2 answers will concentrate on one reference to change and fail to adequately support the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly not be linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7

Section B Question	Answer	Marks
Number 4	By referring to <u>one</u> art form in detail, explain and discuss the	
-	difficulties facing an artist who wishes to create an original work.	[30]
	This essay involves the candidate referring to one art form, explain difficulties, and problems of originality.	
	Difficulties time scale materials demand fusion of ideas shape and direction reliability of equipment location what has gone before competition repetition cost (financial and human) the public's view and reaction 	
	 the public's view and reaction personal sacrifice. 	
	 in the context of a new musical work a film or television drama a painting a sculpture a new building a new season of clothing designs a new novel in a series. 	
	Annotate using D for difficulties	
	The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will look at a range of difficulties facing artists (AO1) by using complex reasoning and a good understanding of views, as well as clearly illustrative examples (AO2). There will be evidence of personal opinion and/or experience or preference to support ideas (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will look at a range of difficulties facing artists (AO1) by presenting a good understanding of views with examples (AO2). There will be some evidence of personal opinion or preference to support ideas (AO3) as well as good communication (AO4).	21-26
	Level 3 answers will show some understanding of the difficulties facing artists (AO1). The analysis will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20

Section B		_
Question	Answer	Marks
Number	Level 2 answers will concentrate on one reference to change and difficulties and fail to adequately support the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly not be linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7
	Section B Total	[30]

Question Number	Answer			
5 (a)		[3]		
(b)	 Give two reasons for the popularity of light rail systems. they can use existing track and get right into the heart of a city centre they display quality and are reliable – new rolling stock/modern and appealing they are comfortable and 'different' ('exciting' – line 13] they are environmentally 'clean' congestion and problems in using the car. <i>Candidates may be awarded 1 mark for a simple statement or up to 3 marks for a developed answer. Annotate using R for reason and D for development. 2x3=6</i>	[6]		
(c)	 Explain two ways that 'light rail systems can introduce new life into tired city centres.' [lines 20 – 21] new light rail means new stations and new trams which will brighten and enliven the cities members of the public who have been reluctant to visit the city due to the unreliability of trains and buses may now pursue a new interest and this will benefit business and commerce new life is introduced by a new generation of visitors with the confidence to travel to the city knowing that they will get there and back safely. an efficient transport system such as this is an important aspect of the growth of tourism (as in cities such as Munich, Amsterdam, and Prague) they can provide building work and generate jobs. This offers a fairly open-ended response for candidates to earn marks by their ability to put forward valid ways in a reasoned fashion and possibly with reference to personal experience. Simple reference to a way would generate 1 mark. To gain maximum marks candidates would need to explain and develop their idea. Annotate using W1, W2 for	[6]		

Section C		
	Answer	Marks
Question Number (d)	Answer Outline two further examples of alternatives to using cars to commute from home to work or school, bringing out both advantages and disadvantages. • bus – particularly important for those living in rural and isolated districts • trains – very efficient and important in a large metropolis but also in countries such as Switzerland or even the narrow gauge railways of Wales which link mountain villages and towns in Snowdonia, for example • bicycles – increasingly popular and efficient due to modern designs and improved safety – reference to Holland and Belgium, Oxford and Cambridge would be helpful to support • walking – increasing parents' awareness of childhood fitness by discouraging the 'school run' in favour of walking to school • relocation – no need for a vehicle • working from home. Advantages and disadvantages may include: • cost • convenience • reliability • personal safety • the environment • personal preference. Examiners should look for two well-constructed, reasoned and supported responses. This would include reference to both advantages and disadvantages.	Marks [15]
	 Maximum 15 marks: two thoroughly developed examples which are coherent and supported with relevant background knowledge two developed examples with some support and background knowledge two examples covered but without clear support and reasoned background knowledge a simple interpretation of the question without clear background or support. If only one alternative form of transport is covered award 8 marks maximum. 	[13-15] [9-12] [5-8] [1-4]
	Annotate using eg 1,2 for examples and + for advantages and – disadvantages.	
	Section C Total	[30]

Section D	•	
Question	Answer	Marks
Number 6	A referendum allows voters to have their say on a single major issue. Outline and discuss the main arguments for and against referenda taking place in the UK. Referenda are an important part of the democratic machinery of a country as there is no real way of knowing whether all of the voters in an election actually supported all of the issues that the party put forward. A referendum allows for a single question to be put where the answer is 'yes' or 'no' so that the electorate can vote on one issue. It is a good way to ensure that major laws cannot be changed without the consent of the people and remains a strong weapon in the armoury of any opposition.	[30]
	Arguments for Arguments against	-
	 they encourage people to participate in government they provide a single, clear answer they increase the legitimacy of major government measures they enable politicians to keep in touch with the country's mood they provide a mandate from the electorate on controversial measures. they encourage people to participate in government they undermine Parliament they undermine Parliament the phrasing of the question is very important the issue may be too complex for 'yes' or 'no' the decision is not always final. 	
	There may be scope for other possibilities on both sides. It will be important for candidates to discuss their chosen arguments for and arguments against and not simply to name them. Annotate using A+ for arguments for and A- for arguments against.	
	The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will look at several arguments for and against referenda (AO1) by using complex reasoning and a good understanding of views, as well as clearly illustrative examples (AO2). There will be evidence of personal opinion and/or experience or preference to support ideas (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will look at some arguments for and against referenda (AO1) by using some reasoning and an understanding of views as well as some examples (AO2). There will be some evidence of personal opinions or preference to support ideas (AO3) as well as accurate communication (AO4).	21-26
	Level 3 answers will show some understanding of the arguments for and against referenda (AO1). The analysis will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20

Section D		
Question	Answer	Marks
Number		
	Level 2 answers will concentrate on one or two references to referenda or perhaps see only one point of view inadequately supporting the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly be not linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7

Question	Answer	Marks
Number	What have been the advantages and disadvantages of state	[20]
7	What have been the advantages and disadvantages of state controlled industries in the UK?	[30]
	Many state industries in the 1980s and 1990s were privatised by:	
	sales of shares	
	selling council houses to tenants	
	contracting out services to private companies.	
	Companies that have been state controlled are :	
	Post Office	
	Utilities	
	Steel	
	Motor cars.	
	Disadvantages	
	• less efficient due to lack of free market competition – this would lead	
	to higher prices	
	they are more bureaucratic	
	they have a political agenda	
	they are easily corruptible	
	waste of taxpayer's money	
	no profit element	
	no efficiency	
	 no accountability to managers and shareholders 	
	• private companies find it easier to raise capital than state controlled	
	 no profits can be generated and shared 	
	pressure on public funding	
	less choice for the consumer.	
	Advantages	
	a government is accountable to the people	
	 the general public some control over the government through the ballot box 	
	governments can raise money more cheaply	
	 government ministers and MPs are less likely to be corruptible 	
	 civil liberties can be threatened 	
	 conflicts over profitability and service levels 	
	 more attention to health and safety. 	

Section D		
Question Number	Answer	Marks
	There may be several other possibilities which candidates may include but it will be very important to develop and explain their chosen points.	
	Annotate using + for advantages and – for disadvantages.	
	The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will look at the advantages and disadvantages of state controlled industries (AO1) by using complex reasoning and a good understanding of ideas, as well as clearly illustrative examples (AO2). There will be evidence of personal opinion and/or experience or preference to support ideas (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will look at the advantages and disadvantages of state controlled industries (AO1) by showing a good understanding of ideas and some examples (AO2). There will be evidence of some personal opinion and preference to support ideas (AO3) as well as accurate communication (AO4).	
	Level 3 answers will show some understanding of the advantages and disadvantages of state controlled industries (AO1). The analysis will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20
	Level 2 answers will concentrate on one single reference to change and difficulties and fail to adequately support the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly be not linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7

Question	Answer	Marks
Number 3	Identify two groups of people whom you consider to be socially excluded. For each one, discuss ways in which they might be successfully integrated into society. Groups that could be socially excluded • ethnic minorities by way of language, cultural diversity, cuisine, fashion • homosexuals • the poor and homeless • non-educated	[30]
	 disabled. Ways of tackling their plight government financial intervention language schools different sorts and styles of education to suit all tolerance within society support groups in the community voluntary aid agencies' support greater understanding of problems through hands-on involvement (homeless and disabled) positive help from the media. 	
	The essay involves the selection of two groups – this is not an exhaustive list – and the discussion of practical ways to end their plight. It offers scope to discuss local, regional, national and world issues. All of these are relevant and interchangeable.	
	Annotate using G1, G2 for groups and T+ for tackling the problem. The exemplification is provided to give a general indication of the standards of achievement likely to have been shown by the candidates awarded the particular levels. The level awarded will depend, in practice, upon the extent to which the candidate has met the assessment objectives overall.	
	Level 5 answers will look at two named groups in detail (AO1) by using complex reasoning and a good understanding of ideas, as well as clearly illustrative examples (AO2). There will be evidence of personal opinion and/or experience or preference to support ideas leading to successful tackling of the situation (AO3) as well as clear layout and accurate communication (AO4).	27-30
	Level 4 answers will look at two named groups in some detail (AO1) by showing a good understanding of ideas and examples (AO2). There will be some evidence of personal opinion or preference to support ideas (AO3) as well as clear communication (AO4).	21-26
	Level 3 answers will name two groups and some of the associated problems (AO1). The analysis will be relevant but superficial in content and structure (AO2/3). Communication will be clear and errors will not blur the understanding of the key points (AO4).	13-20

Section D		
Question	Answer	Marks
Number		
	Level 2 answers will be superficial, perhaps referring to one single group only and fail to adequately support the points made (AO1/2). There will be an absence of personal opinion and the ideas will mostly be not linked and unstructured (AO3). Communication will display weaknesses which hamper clear understanding (AO4).	8-12
	Level 1 answers will lack clear understanding and knowledge (AO1) without any really clear understanding. There will be little or no evidence of personal experience or any evaluation (AO3). Communication will be weak and will be very briefly stated. (AO4).	1-7
	Section D Total	[30]
	Paper Total	[120]

F732 The Scientific Domain

Guidance for Examiners

Do not use ticks.

Use the following annotations. (In any one script you are not expected to use all of these.)

Yes	recognises a point worthy of credit
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No	a content error
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Stages to an essay mark

Read and annotate the candidate's response.

Review your annotation and then consider in which level the answer is located.

Consider its position within the level and a possible mark.

Fine tune the mark by considering the Assessment Objectives.

Write a one or more line comment reflecting the AO statements.

eg	AO1	good knowledge very limited knowledge and eg
	AO2	examples given
	AO3	personal experience relevant restricted personal experience
	AO4	clearly written inaccurate Spg

Enter the final mark in a circle.

Generic Mark Scheme for Questions with 30 marks

AO1	Level Descriptor	Marks
	The candidate demonstrates the	
	following abilities where appropriate to:	
Level 5	 select, use and integrate a very good range of relevant knowledge 	8
	show a good understanding of the concepts involved	
Level 4	 select, use and integrate a good range of relevant knowledge show an understanding of the concepts involved 	6-7
Level 3	 select, use and integrate a range of relevant knowledge show an adequate understanding of the concepts involved 	4-5
Level 2	 select, use and integrate a limited range of relevant knowledge show a modest understanding of the concepts involved 	2-3
Level 1	 select, use and integrate some knowledge which may not be accurate 	1
	show a restricted understanding of the concepts involved.	
AO2	Level Descriptor	
	The candidate demonstrates the following abilities where appropriate to:	
Level 5	 interpret and analyse issues and problems well and evaluates them appropriately 	9-10
	use evidence to develop complex reasoned arguments and draw sound conclusions on the evidence	
Level 4	 interpret and analyse issues and problems well and evaluates them competently 	7-8
	use evidence to develop reasoned arguments and draw sound conclusions on the evidence	
Level 3	 undertake some interpretation and analysis of issues and problems and make a superficial evaluation 	5-6
	use evidence to develop arguments and draw conclusions	
Level 2	demonstrate limited interpretation and analysis of issues and problems with limited evaluation	3-4
	use evidence to develop limited arguments and draw limited conclusions	
Level 1	demonstrate poor interpretation and analysis of issues, problems and evaluation	1-2
	recognise arguments and conclusion	

AO3	Level Descriptor	Marks
	The candidate demonstrates the	
1	following abilities where appropriate to:	
Level 5	 demonstrate very good awareness of the differences between types of knowledge 	6
	 have a very good appreciation of the strengths and limitations of 	
	the different types of knowledge	
Level 4	 demonstrate good awareness of the differences between types of knowledge 	5
	have a good appreciation of the strengths and limitations of the different types of knowledge	
Level 3	 demonstrate awareness of the differences between types of knowledge 	4
	 have an appreciation of the strengths and limitations of the different types of knowledge 	
Level 2	demonstrate limited awareness of the differences between types of knowledge	3
	 have a restricted appreciation of the strengths and limitations of the different types of knowledge 	
Level 1	 demonstrate very limited awareness of the differences between types of knowledge 	1-2
	 have a very restricted appreciation of the strengths and limitations of the different types of knowledge. 	
AO4	Level Descriptor	
	The candidate demonstrates the	
<u> </u>	following abilities where appropriate to:	
Level 5	 communicate complex ideas clearly and accurately, using specialist vocabulary where appropriate, in a concise, logical and relevant way 	6
	 use a wide range of the rules of grammar, punctuation and spelling with accuracy and facility 	
Level 4	 communicate ideas clearly and accurately, using specialist vocabulary where appropriate, in a concise, logical and relevant way Use a range of the rules of grammar, punctuation and spelling 	5
	with	
Level 3	 communicate clearly, using some specialist vocabulary with facility 	4
	use some of the rules of grammar, punctuation and spelling with facility	
Level 2	 communicate ideas with limited clarity, using some specialist vocabulary 	3
	use some rules of grammar, punctuation and spelling	
Level 1	communicate with little clarity using occasional specialist terms	1-2
	use poor grammar and punctuation, and inaccurate spelling.	

F732

Sect	tion A	N .				
Ansv	wer <u>a</u>	I of the questions i	n this section.			
1	Two	ice cream sellers	who are in competition	on arrive at a crow	ided beach	
•	1 000	lice creatil sellers		on annve at a crow		
	Fig.	1 shows where the	e two ice cream selle	rs set up their stal	lls on the beach.	
			Fig.	1		
			i ig.			
		·				
	Fig.	2 shows another p	ossible pair of location	ons for the sellers	on the beach.	
			Fig. 2	2		
	(-)		aht hath iss aream			
	(a)	locations shown	ght both ice cream	sellers give for s	selecting their	[3]
			5			
		Assessment Ob		4.00	104	
		AO1	AO2	AO3	AO4	
		•	•		•	_
		This is the classic	c 'Hotelling Ice Crear	n Seller' location	ouzzle.	
		The two end up i	n the middle of the b	each so that their	market is half the	
		-	ther moves to one sid			
			than half the beach.	-	•	
		suppliers tend to	agglomerate at the c	entre of the mark	et.	
			answers examiners i c or behavioural facto	• •		
		Idiosyncratic fact liking the vi flatter area 	ors could include: ew			
		near attract	tive lifeguards.			
		One mark for eac	ch simple idea or two	for a developed i	dea.	
		Key ideas include	e:			
			ach each means half	the customers ne	arer	
			e competition petitor customers			
			f comparison of good	ls.		
			n all over the beach			
			n/the best ice cream			
			pers on each side			
		 people got allows choi 	to the cheapest if the	ey are close togeti	her	
			the other is doing			
			e whole beach			
		• in the midd	le of everyone.			

	No marks awarded	for:			
	close to the b	ousy part of the bead	ch		
		hildren and the sea			
	share custom	ners.			
		uld be awarded for o	clarity of explanation	on and shown	
	inside the margin.				
(b)	Why would the loo	cations shown in F	ig. 2 be better that	an those in Fig 1	
	for customers on		-		[3]
	Assessment Obje		AO3	AO4	
	A01	AO2	AUJ	A04 1	
				I	
	Hotelling refers to t	his as planned provi	sion Competition	is removed This	
	-	on the beach beca	-		
	walk to get to a sup				
		P.) Po			
	When accepting an	swers examiners m	ust expect respons	ses that refer to	
		r behavioural factor			
			-		
	Idiosyncratic factor				
	near the toile				
	out of the win				
	close to funfa	ir.			
	Key ideas include:				
	•	distance to walk on a	average		
		ners can still select	average		
	 avoids crowd 				
		people on the beach	1		
	 less congesti 	-	1		
	 visible to mor 				
	One mark for each	simple idea or two f	or a developed ide	ea.	
	No marks awarded	for:			
	shorter que	ues			
	•	more competitive			
	less compet	•			
	clear line of				
	more space	-			
		from each other.			
	The AO4 mark sho	uld be awarded for a	clarity of explanatio	on and shown	
	inside the margin.				

Mark Scheme

(c)	How might the thinking behind the location of the two ice cream sellers in Fig. 1 and Fig. 2 be applied more generally to the location of shops?				
	Assessment Obj	ectives			
	AO1	AO2	AO3	AO4	
	2	2		2	
	Shops needing a will locate near to This would apply the applied to post off Maximum 5 marks	This matches Fig 1. catchment area to se customers and when to corner shops and fices in the past and s if both figures not re ks should be awarde	e possible away fro fish and chips shop some public houses epresented	om competitors. os. It would have s.	

2	(a)	Exai	mine Fig. 3 wh	ich shows	a number s	quare.			
					Fig. 3				
				8	1	6			
				3	5	7			
				4	9	2			
		Wha	nt do you noti	ce about t	he pattern	of numbers i	in the s	square?	[3]
Assessment Objectives									
			AO1	AC)2	AO3		AO4	
			3						
	(b)	A ma	athematician n be formula 2 ⁿ – example if n = Calculate th 3 to 6.	d numbers amed Mer - 1. 2 the Mers e value of	senne devis senne numb	, é ed some nun er would be 3	3.	nat are given	[4]
			A01		AO2	AO3		AO4	
			3		1				
		1	-	I					
			There are two information g						
			2 ³ -1=7	2 ⁴ -1=15		2 ⁵ -1=31	2 ⁶ -7	1=63	
			One mark for	r each.					

Mark Scheme

(ii)	What pattern do values of n from	you discover for 2 to 6?	the Mersenne n	umbers for	[5]
	Assessment Objectives				
	AO1	AO2	AO3	AO4	
	3	1		1	
	 2⁵-1=31 2⁶-1=31 2⁶-1=31 2⁶-1=31 The pattern is that The differences at Two marks for not two marks for not Two marks for not Two marks for put One mark for sum One mark for sum Allow five marks for sum Allow five marks for sum the AO4 mark shinside the margin All odd numbers Not able to find with Double the different Times two and activity. 	at each increases have 2, 4,8,16 that 2 bind the pattern of atting the pattern of atting this in index/ anmary at end. (AO for one summary s hould be awarded [1] Odd numbers squence of the previou ad one [2] Explained	by a power of 2. 1, 2 ² , 2 ³ , 2 ⁴ . differences. bower form or an of 4). statement that cov for clarity of explained explained [1] AO4 are roots [1] Explained is two [2] Explained ed [2] AO4 [1]	ers all aspects nation and shown [1] ained [1] AO4 [1]	
	The key point her	e is reference to a	pattern.		

(iii)	divided by any n Show that when	are those number number except the n=4 and n=6 the	emselves and on	e.	[6]		
	are not prime nu	mbers.					
Assessment Objectives							
 	AO1	AO2	AO3	AO4			
	3	2		1			
	A little history for	interest.					
	Many early writers felt that the numbers of the form 2^{n} -1 were prime for <i>all</i> values of <i>n</i> , but in 1536 Hudalricus Regius showed that 2^{11} -1 = 2047 was not prime (it is 23 times 89). By 1603 Pietro Cataldi had correctly verified that 2^{17} -1 and 2^{19} -1 were both prime, but then incorrectly stated 2^{n} -1 was also prime for 23, 29, 31 and 37. In 1640 Fermat showed Cataldi was wrong about 23 and 37; then Euler in 1738 showed Cataldi was also wrong about 29. Sometime later Euler showed Cataldi's assertion about 31 was correct. Enter French monk Marin Mersenne (1588-1648). Mersenne						
	stated in the pre	face to his <i>Cogit</i> numbers 2 ⁿ -1 we	ata Physica-Mat				
	<i>n</i> = 2, 3, 5, 7, 13,	17, 19, 31, 67, 12	7 and 257				
	Prime numbers d	o not have factors					
	2 ⁴ -1= 15 and has 2 ⁶ -1=63 and has 1	factors 5 and 3. factors 7 and 9 or	7, 3, 3.				
	Two marks for sh Two marks for sh One mark for clar	ould be awarded f	rime. prime.	nation and shown			
		(b)(i) incorrectly a der the two alternation					
	(i) 2x2-1=3 2x3-	·1=5 2x4-1=7 2	2x5-1=9 2x6-1=1	1 [No marks]			
	(ii)pattern is all oc allocation [2 plus	ld numbers going 1 for AO4]	up in twos. Sugge	sted mark			
		(iii)N=4 mersenne Number= 7, N=6 Mersenne number=11. Both prime numbers [No Marks]					
	(i)2 ² -1=3 3 ² -1=8	(i)2 ² -1=3 3 ² -1=8 4 ² -1=15 5 ² -1=24 6 ² -1=35 [No Marks]					
	. ,	the difference goe 1 [2 plus	•	plus 2			
		6 ² -1=35 Proof that terpretations of the ne way.					

	wer one question fror							
Ans	wers must be in conti	nuous prose.						
3	their work is restri	Surgeons regularly perform successful organ transplants but the extent of their work is restricted by a lack of available organs from volunteer donors.						
	organs to hospital		against the compul	sory donation of	[30]			
	Assessment Objectives							
	AO1	AO2	AO3	AO4				
	8	10	6	6				
			·	·	1			
	This question involv	es:						
	recognising th	e difference betwee	n voluntary and com	pulsory systems				
	describing two	arguments in favou	ur of compulsory don	ation				
	describing two	arguments against	compulsory donation	า.				
	Indiactive content							
	Indicative content							
	In 2007 there is debate that the current voluntary system be replaced by an							
	assumed consent system. This question takes the argument a little further.							
	Arguments in favour							
		ing for lack of volunt						
		ess may be held ba						
		•	have full life after the	operation				
	waste of healthy organs.							
	Arguments against	compulsory donation	n include:					
		of personal space						
	 individuals right 	• •						
	 wishes of the 							
	 religious aspe 	•						
	•		ercised/enforcement					
	-	dical research, 'har						
	U	its of transplant surg	•					
	Examiners should n transplantation.	ot be too restrictive	about which organs	are available for				
		lood, marrow and co						

Level	Descriptors	Marks
Level 5	These candidates will recognise the two systems. They will give two developed reasons for and two against the extension of the presumption. Their answers will be very clear and written with accuracy and facility.	27-30
Level 4	These candidates will recognise the two systems. They will give two reasons for and two reasons against the extension of the system. Two of these four will be developed. Their answers will be clear and accurate with few limitations on their SPG	21-26
Level 3	These candidates will give two reasons for and two against the extension of the system of presumption. The answers will tend to be unbalanced. Their answers will be clear with some limitations to their SPG.	13-20
Level 2	These candidates will tend to miss one of the four elements of the question or one will be present in fragmentary terms. Their answers will not be clear with insecurity to their SPG.	8-12
Level 1	These candidates will miss two elements of the question. Their answers will lack clarity using poor grammar and punctuation and inaccurate spelling.	1-7
	Recommended annotation	
	Intro for introduction F1 and F2, for arguments in favour of compulsory donation A1 and A2 for arguments against compulsory donation. Dev for development Con. for conclusion.	

Describe <u>one</u> type o	of event where fored	asts have proved I	helpfully accurate		
	v have been less acc				
difference in the ac	curacy of forecasts.				
Accessment Object	ivee				
 Assessment Objectives AO1 AO2 AO3 AO4					
 8	10	<u> </u>	6		
 This question involve	-	0	U		
•	what forecasting invol	ves			
•	nelpful forecasts				
•	ess accurate forecast	s.			
Indicative content					
It is difficult to give p	recise information be	cause of the wide ch	oice available.		
Probable accurate for					
weather foreca	•				
	diction eg life expecta	incy			
traffic flow					
hurricane track					
 related to astro 	•				
prediction of di	•				
climate change).				
Less accurate foreca	ists include:				
earthquakes					
volcanic erupti	ons				
medical treatm	ent outcomes				
biodiversity me	asurements				
climate change)				
economic trend	ds.				
Examiners should be	e alert and flexible in t	hat some forecasts	may appear in		
	change. The descript				
acceptability.		Ū			
Reasons for the diffe	rence could include:				
 lack of data 				1	
 complexity of the 	ne svstem			1	
 rapidity of char 	•			1	
unknown proce	•				
•	cientific inventions				
 level of econor 					
 time scale invo 				1	

Level	Descriptors	Marks
Level 5	These candidates will develop descriptions of both helpfully accurate and less accurate forecasts. They will give two very good reasons for the differences between them. Their answers will be very clear and written with accuracy and facility.	27-30
Level 4	These candidates will include all three parts of the question but only two of them will be developed. Their answers will be clear and accurate with few limitations on their SPG	21-26
Level 3	These candidates will attempt all three parts of the question but only one of them will be developed leading to some imbalance. There will be some insecurity in their analysis of reasons. Their answers will be clear with some limitations to their SPG.	13-20
Level 2	These candidates will include some material on each of the three parts of the question. Two of these will probably be fragmentary. Their answers will not be clear with insecurity to their SPG.	8-12
Level 1	These candidates will include material on two of the three parts of the question. Their answers will lack clarity using poor grammar and punctuation and inaccurate spelling.	1-7
	Recommended annotation	
	Intro for introduction H for descriptions of event where forecast was helpful U for descriptions of event where forecasts were less accurate R1 and R2 for reasons for the differences Dev for development eg for examples Conc. for conclusion.	

'People say that hindsight is 20:20.' Describe an environmental problem with which you are familiar. Explain how people have attempted to manage the issue. How might hindsight							
suggest an alternative plan?							
Assessment Objectives							
AO1	AO2	AO3	AO4				
8	10	6	6				
explanation of	an environmental pr how people have at	oblem tempted to manage to ggest an alternative p	•				
Indicative content							
 00	•	can be seen more cle rs to the feet away for	, ,				
that the umpire did r	not see from 6 metre vironmental manage	ment could include po					
 Environmental problems that could be cited include: housing estates that generate traffic congestion out of town shopping areas that produce noise and congestion water supply in terms of quality and reliability flood protection schemes that fail managing forests for sustainability 							
 competition for land using finite resources village by-pass that created more noise for residents than original road through village park and ride schemes car parks at the edge of parks that become areas for social problems regional water authorities that are not able to share water 							
-	ing (streets in the sk	Ily developed countrie y) that became sink e					
Examiners are invite management. Some environmental aspect		ir interpretation of enternation of enternation of enternation of enternation of enternation of enternation of e					

Level	Descriptors	Marks				
Level 5	These candidates will show a very good understanding of the term hindsight. They will develop a clear description of an environmental problem and how it has been managed. They will show how hindsight suggests an alternative way to manage the problem. Their answers will be very clear and written with facility.					
Level 4	These candidates will show a good understanding of the term hindsight. They will develop a description of an environmental problem and how it has been managed. They will imply how hindsight suggests an alternative way to manage the problem. Their answers will be clear and accurate with few limitations on their SPG.	21-26				
Level 3	These candidates will show some understanding of the term hindsight. They will be able to cite an environmental problem and how it has been managed in general terms. They will offer some limited link to the term hindsight. Their answers will be clear with some limitations to their SPG.	13-20				
Level 2	These candidates will have a limited understanding of the term hindsight. They will include an environmental problem in limited terms with some suggestion of how it has been managed. The linked of hindsight to the scheme will be fragmentary. Their answers will not be clear with insecurity to their SPG.	8-12				
Level 1	They will include an environmental problem in limited terms with a poor suggestion of how it has been managed. Their answers will lack clarity using poor grammar and punctuation and accurate spelling.	1-7				
	Recommended annotation					
	 Intro for introduction. H1, H2 for points above hindsight. D1, D2, D3 for description of the environmental management scheme chosen. M1, M2, M3 for explaining how it has been managed. Ex1, Ex2 for explaining how hindsight alters the view of the scheme. Dev for development. Conc. for conclusion. 					

Grade Thresholds

Advanced Subsidiary GCE General Studies (H079) June 2009 Examination Series

Unit Threshold Marks

Unit		Maximum Mark	Α	В	С	D	E	U
F731	Raw	120	93	84	75	66	58	0
	UMS	140	112	98	84	70	56	0
F732	Raw	60	50	44	39	34	29	0
	UMS	60	48	42	36	30	24	0

Specification Aggregation Results

Overall threshold marks in UMS (ie after conversion of raw marks to uniform marks)

	Maximum Mark	Α	В	С	D	E	U
H079	200	160	140	120	100	80	0

The cumulative percentage of candidates awarded each grade was as follows:

	A	В	С	D	E	U	Total Number of Candidates
H079	8.3	20.7	38.5	57.9	75.2	100	14724

14724 candidates aggregated this series

For a description of how UMS marks are calculated see: <u>http://www.ocr.org.uk/learners/ums_results.html</u>

Statistics are correct at the time of publication.

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