

GCSE GEOGRAPHY 8035/2

Paper 2 Challenges in the Human Environment

Mark scheme

June 2022

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. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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Point marked questions marking instructions

The mark scheme will state the correct answer or a range of possible answers, although these may not be exhaustive. It may indicate how a second mark is awarded for a second point or developed idea. It may give an indication of unacceptable answers. Each mark should be shown by placing a tick where credit is given. The number of ticks must equal the mark awarded. Do not use crosses to indicate answers that are incorrect.

Level of response marking instructions

Level of response mark schemes are broken down into levels, each of which has a descriptor. The descriptor is linked to the assessment objective(s) being addressed. The descriptor for the level shows the average performance for the level.

Before you apply the mark scheme to a student's answer read through the answer and annotate it (as instructed) to show the qualities that are being looked for. You can then apply the mark scheme. You should read the whole answer before awarding marks on levels response questions.

Step 1 Determine a level

Descriptors for the level indicate the different qualities that might be seen in the student's answer for that level. When assigning a level you should look at the overall quality of the answer and not look to pick holes in small and specific parts of the answer where the student has not performed quite as well as the rest. If the answer covers different aspects of different levels of the mark scheme you should use a best fit approach for defining the level and then use the variability of the response to help decide the mark within the level, ie if the response is predominantly Level 2 with a small amount of Level 3 material it would be placed in Level 2 but be awarded a mark near the top of the level because of the Level 3 content. For instance, in a 9 mark question with three levels of response, an answer may demonstrate thorough knowledge and understanding (AO1 and AO2) but fail to respond to command words such as assess or evaluate (AO3). The script could still access Level 2 marks. Note that the mark scheme is not progressive in the sense that students don't have to fulfil all the requirements of Level 1 in order to access Level 2.

Step 2 Determine a mark

Once you have assigned a level you need to decide on the mark. The descriptors on how to allocate marks can help with this. The exemplar materials used during standardisation will also help. There will generally be an answer in the standardising materials which will correspond with each level of the mark scheme. This answer will have been awarded a mark by the Lead Examiner. You can compare the student's answer with the example to determine if it is the same standard, better or worse than the example. You can then use this to allocate a mark for the answer based on the Lead Examiner's mark on the example.

You may well need to read back through the answer as you apply the mark scheme to clarify points and assure yourself that the level and the mark are appropriate.

Indicative content in the mark scheme is provided as a guide for examiners. It is not intended to be exhaustive and you must credit other valid points. Students do not have to cover all of the points mentioned in the indicative content to reach the highest level of the mark scheme.

An answer which contains nothing of relevance to the question must be awarded no marks.

Assessment of spelling, punctuation, grammar and use of specialist terminology (SPaG)

Accuracy of spelling, punctuation, grammar and the use of specialist terminology will be assessed via the indicated 9 mark questions. In each of these questions, three marks are allocated for SPaG as follows:

- High performance 3 marks
- Intermediate performance 2 marks
- Threshold performance 1 mark

General guidance

- Mark schemes should be applied positively. Examiners should look for qualities to reward rather than faults to penalise. They are looking to find credit in each response they mark. Unless the mark scheme specifically states, candidates must never lose marks for incorrect answers.
- The full range of marks should be used. Examiners should always award full marks if deserved, ie if the answer matches the mark scheme.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked unless the candidate has replaced it with an alternative response.
- Do NOT add ticks to level-marked questions use the highlight tool/brackets to signify what is relevant.
- Sometimes there are specific "triggers" in the mark scheme that enable higher level marks to be awarded. For instance, an example or case study may be required for Level 3 if it is stated within the question.
- Where a source, such as a photograph or map, is provided as a stimulus it should be used if requested in the question, but credit can often be given for inferred as well as direct use of the source.
- Always be consistent accept the guidelines given in the mark scheme and apply them to every script.
- If necessary make comments to support the level awarded and to help clarify a decision you have made.
- Examiners should revisit standardised script answers as they apply the mark scheme in order to confirm that the level and the mark allocated is appropriate to the response provided.
- Mark all answers written on the examination paper.

Section A

Qu	Pt	Marking Guidance	Total marks
01	1	Calculate the mean rate of growth per hour for the Asian cities shown in Figure 1.	2
		Answer: 52	
		One mark for working, one for correct answer.	
		Full marks for correct answer with no working.	
		Allow 1 mark if answer given with correct decimals to one or two places and not rounded eg 52.16 / 52.17 / 52.2	
		AO4 = 2 marks	
01	2	Outline one reason for the slower rates of growth in HIC cities.	2
		The question focusses on HICs, it should be clear the candidate is referring to these and not cities in general.	
		One mark for an initial overall comment or single relevant statement eg	
		• They have already developed / they urbanised in the past / during the industrial revolution (1).	
		 Many people no longer wish to live in cities (1). Transport makes it possible to commute from outside the city (1). 	
		Second mark for developing the comment eg	
		• They urbanised in the past / during the industrial revolution (1) so the cities have already grown to a large size (d)(1) so most of the population already live in urban areas (d)(1).	
		 Many people no longer wish to live in cities (1) as they have a better quality of life in rural areas (d)(1). 	
		 Transport makes it possible to commute from outside the city (1) so people live in the surrounding areas rather than the city (d)(1). 	
		Credit answers that refer to lower natural increase / lower birth rates.	
		AO1 = 2 marks	

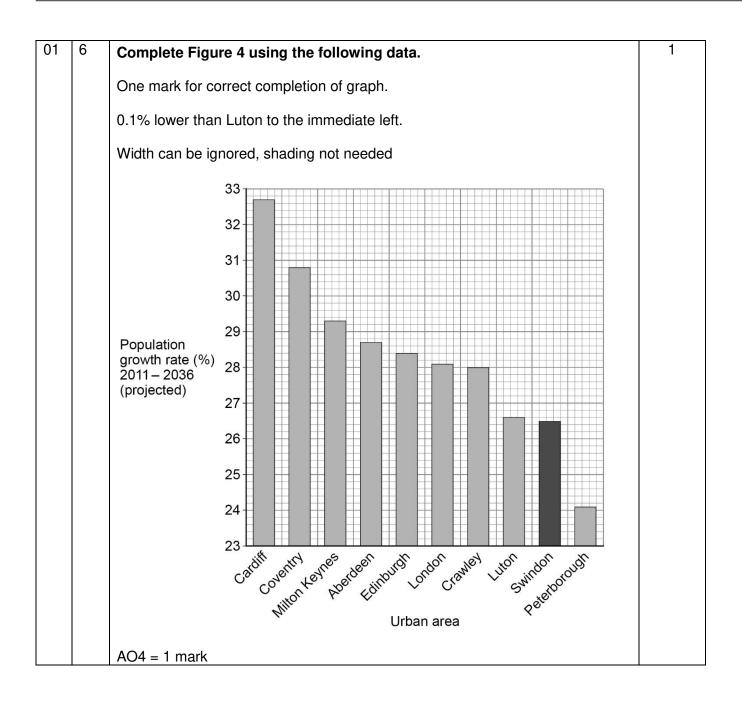
01	3	Give one way in which a major city in an LIC/NEE is regionally important.	1
		Credit any reasonable statement in relation to the named city. Allow wide interpretation of 'regional' as both supra and intra-national.	
		Eg Lagos – a main financial centre (for West Africa).	
		Rio de Janeiro – Cultural capital for Brazil / Olympic host city.	
		Mumbai – major port/ Bollywood	
		No credit for HIC city.	
		AO1 = 1 mark	

Us	se Figure	2 and ar	LIC/NEE example you have studied.
	Level	Marks	Description
(1	3 Detailed)	5–6	 AO2 – Shows detailed understanding of the relationship between urban planning and quality of life for poorer people. AO3 – Demonstrates thorough application of knowledge and understanding to offer analysis of the
	2 (Clear)	3–4	example provided and / or the link in broader terms. AO2 – Shows clear understanding of the relationship between urban planning and quality of life for poorer people. AO3 – Demonstrates some application of knowledge and understanding through some analysis of the example provided and / or the link in broader terms.
	1 (Basic)	1–2	 AO2 – Shows limited understanding of the relationship between urban planning and quality of life for poorer people. AO3 – Demonstrates limited application of knowledge and understanding through basic analysis of the example provided and / or the link in broader terms.
		0	No relevant content.

- Level 3 responses will cover the figure and either a named example or well-developed geographical knowledge and provide a considered analysis of the link.
- Level 2 responses will show reasonable understanding of the link using the figure and an example / clear geographical knowledge or more considered analysis for just the figure or example used.
- Level 1 responses will show simple understanding of the link using the figure and / or a named example / simple geographical knowledge.
- Max top L2 if only appropriate example or Figure 2 covered.
- Max top L2 if no example.
- Max L1 for HIC example

 <u>Indicative content</u> Full specification requires an example of urban planning in the context of an LIC/NEE to be studied and candidates should use this. Credit references to schemes which have been planned even if the word planning is not stated.
 Answers should make use of both Figure 2 and a named city in a LIC/NEE, balance is not required.
 Reference to Figure 2 may be inferred even if not explicitly stated through comment on improvements to infrastructure relating to quality of life.
 Figure 2 shows how living conditions, notably water and sanitation, can be improved but that governments need to be involved also. Clearly clean water and better sanitation will reduce incidence of disease and more durable housing helps residents feel settled and more secure, both of which improve quality of life.
The command 'explain' requires a link to be established between the
planning / actions taken and how the quality of life is improving as a result.Specific examples may be used such as the Favela-Barrio scheme in Rio or
 more general approaches such as improving traffic infrastructure in Lagos. eg Favela-Barrio: day care centres provide adult education classes to improve job prospects so that employment is more secure; poorly built houses are replaced with brick structures and ownership rights are granted so danger of eviction and therefore stress are reduced. eg Lagos has developed a Bus Rapid Transit and light railway system to carry more people into the city which will improve access to employment and thereby increase pay and quality of life.
AO2 = 3 marks AO3 = 3 marks

Level	Marks	Description
2 (Clear)	3–4	AO2 – Shows clear understanding of urban areas and the concept of sustainability. AO3 – Uses Figure 3 effectively and offers development to interpret the link between the developments shown and sustainability.
1 (Basic)	1–2	AO2 – Shows limited understanding of urban areas and the concept of sustainability. AO3 – Uses Figure 3 OR own knowledge to begin to interpret the link between the developments shown and sustainability.
	0	No relevant content.
 reference to through reference to through reference to through reference to the example of the example of the energy From Figure consumption of the energy All aspects economic and of one aspects 	hould mak to specific ference to ent need n hay add cla cplanation re 3: bus ro on and cor ntal and so sier and sa sil fuel dep energy co crease wild or the base used in co s of urban s and politica ect.	e use of Figure 3 which should be clear through developments shown in the figure or more implicit sustainable transport developments. ot be through use of a named place but use of an arity and should be credited. Development may also be of urban sustainability and how it might be achieved. outes promote public transport which reduces fuel ngestion thereby reducing emissions with both ocial benefits; clear separate cycle lanes will make fer for people; solar panels use renewable energy and bendency and greenhouse gas emissions; LED lighting onsumption; adding green roofs creates green space life habitats with environmental benefits; recycling e of the shelter saves both the primary resources and oncrete manufacture. sustainability are valid ie environmental, social, al and full marks may be obtained for full development
popular exOwn know	amples. ledge will v ver similar	ed, Freiburg, Greenhouse Leeds and Curitiba as vary based on the aspects or example chosen but is ideas with other possible themes from the specificatio



01	7	Calculate the range of population growth rate (%), 2011–2036 (projected) for the urban areas shown in Figure 4.	1
		One mark for the correct answer.	
		C – 8.6%	
		No credit if two or more answers are shaded.	
		AO4 = 1 mark	

01	8	Compare the distribution of the 10 highest and 10 lowest urban areas shown in Figure 5.	2
		One mark for an initial overall descriptive comment or single relevant descriptive statement eg	
		 Most of the highest in the south and east / lowest in the north (1). All of the lowest growing ones are in England / 7 of the highest ones (1). Most of the lowest growing are on the coast / most of the highest are inland (1). 	
		Second mark may be a second separate point <u>or</u> developed point for further descriptive clarity, eg	
		 Highest in the south and east / lowest in the north (1) with all the lowest in England / three of the highest not in England (d)(1). All of the lowest growing ones are in England / 7 of the highest ones (1) so the highest growing cities are more widely distributed / the 2 furthest north actually amongst the highest growing (d)(1). Most of the lowest growing are on the coast (1) but most of the highest are inland (d)(1). 	
		Credit reference to' Midlands' for 10 lowest in UK context.	
		AO4 = 2 marks	

01	9	Outline how international migration has affected a UK city you have studied.	2
		Credit one migration and consequent change only.	
		One mark for a basic statement, eg	
		 Migration means cities have got bigger (1). Migration from other countries means some cities have areas dominated by the new population (1). People from other countries bring shops and building styles that are different from what was there before (1). 	
		Two marks for a developed idea, eg	
		• Migrants from other countries will often live near to each other for support (1) and so they will become the majority population in the area, meaning you are as likely to hear the migrant language spoken on the street as you are English (d) (1).	
		• The clustering of many migrants from China in one place in London has led to the development of Chinatown (1) where many buildings are in Chinese style and there are a number of Chinese supermarkets (d) (1).	
		Max 1 mark if city not named or clearly able to be inferred or non-UK city.	
		Max 1 if the migration is not international, at least implicitly.	
		Allow named area of a city	
		AO1 = 2 marks	

	Level	Marks	Description
(D	3 vetailed)	7–9	 AO1 – Demonstrates detailed knowledge of places and processes in urban environments. AO2 – Shows a thorough understanding of how urban change in the UK creates challenges. AO3 – Demonstrates thorough application of knowledge and understanding to make thorough assessment of the challenges in a UK city.
(2 Clear)	4–6	 AO1 – Demonstrates reasonable knowledge of places and processes in urban environments. AO2 – Shows clear understanding of how urban change in a UK city creates challenges. AO3 – Demonstrates reasonable application of knowledge and understanding to make partial assessment of the challenges in a UK city.
(1 Basic)	1–3	AO1 – Demonstrates limited knowledge of places and processes in urban environments. AO2 – Shows limited understanding of how urban change in a UK city creates challenges.

	AO3 – Demonstrates limited application of knowledge and understanding to make limited assessment of the challenges in a UK city.
	0 No relevant content.
	responses will provide a more considered assessment with on of the extent / scale of challenges, supported with precise ge.
of challen assessme	responses will provide specific knowledge with implicit assessment nge(s) or generically accurate knowledge with well-reasoned ent of challenge(s).
challenge	responses will show simple understanding of whether or not e(s) result.
• Max Leve	 I 2 if no assessment of the challenges. el 2 if no named city / non-UK city with relevant comments for discussion of the opportunities.
Indicative co	ontent
comment,	stion specifies challenges only but a wide range are available for t, depending on the city chosen.
Bristol, Lo	must refer to a named UK city. Likely examples are Liverpool, ondon, Birmingham.
Gateshea	
changes i	mand 'assess' requires some appraisal of the degree to which in urban areas in the UK create challenges. There should be an ink the change to the resulting issues which are as follows:
Housing:	economic inequalities in Poor quality housing in inner city areas is slow to be redeveloped uses, Granby Four Streets, Liverpool.
Education	n: Students in Filwood, Bristol gained much lower GCSE scores Bristol Average (P8 = -0.6 vs -0.1)
 Health: Life and lower 	ife expectancy in Aston, Birmingham is only 76, below UK average r than areas such as Four Oaks at 85.
All of the a	nent: 9% of adults in Anfield are unemployed. above indicating high levels of deprivation eg Filwood, Bristol in the of or deprivation nationally and can be linked to the processes of decline.
	of communities, particularly in recent past, due to large scale e of unfit housing.
by one ho	ng mixed communities as many new developments are dominated ousing type and therefore one or two social groups eg city centre suburban 'executive' estates.
Environmen	
they could	on: see above re £1 houses as they were in such poor condition dn't be sold otherwise.
 Building o 	on greenfield and brownfield sites: whilst the former may be

	b marks awarded The learner writes nothing. The learner's response does not relate to the question. The learner's achievement in SPaG does not reach the threshold performance level, for example errors in spelling, punctuation and grammar severely hinder meaning.	
•	Areshold performance Learners spell and punctuate with reasonable accuracy. Learners use rules of grammar with some control of meaning and any errors do not significantly hinder meaning overall. Learners use a limited range of specialist terms as appropriate.	0
•	termediate performance Learners spell and punctuate with considerable accuracy. Learners use rules of grammar with general control of meaning overall. Learners use a good range of specialist terms as appropriate.	1
•	gh performance Learners spell and punctuate with consistent accuracy. Learners use rules of grammar with effective control of meaning overall. Learners use a wide range of specialist terms as appropriate.	2
Ret	belling, punctuation and grammar (SPaG) esponses with SPaG marks that gain a mark of 0 for the content/skills of e question can still be awarded SPaG marks if the response is judged be a genuine attempt to answer the question.	3
ch	allenges. D1 = 3 marks , AO2 = 3 marks, AO3 = 3 marks	
• • • • •	slow to arrive from private companies eg Urban Splash, Park Hill Flats, Sheffield. Waste disposal: an increasing problem as city populations grow. The challenge of maintaining green space as cities grow and unused space is infilled. 'ban sprawl on the rural-urban fringe See above re greenfield sites, including out-of-town shopping developments eg New Mersey shopping park. Growth of commuter settlements which lose character and become too expensive for most eg Shenstone, N of Birmingham. Pressure to develop on the greenbelt. Ensuring a viable mix of retail / leisure / housing as many new developments become 'commuting ghettos'.	

Section B

Qu	Pt	Marking Guidance	Total marks
02	1	Complete Figure 6 using the following data. 1 mark for each point correctly plotted and then joined with a solid line. Max 1 mark if points plotted without being joined correctly by a solid line.	2
		AO4 = 2 marks	

02	2	Calculate the difference between employment (%) in primary industry and secondary industry in 2016.	1
		One mark for the correct answer:	
		A – 13%	
		No credit if two or more answers are shaded.	
		AO4 = 1 mark	

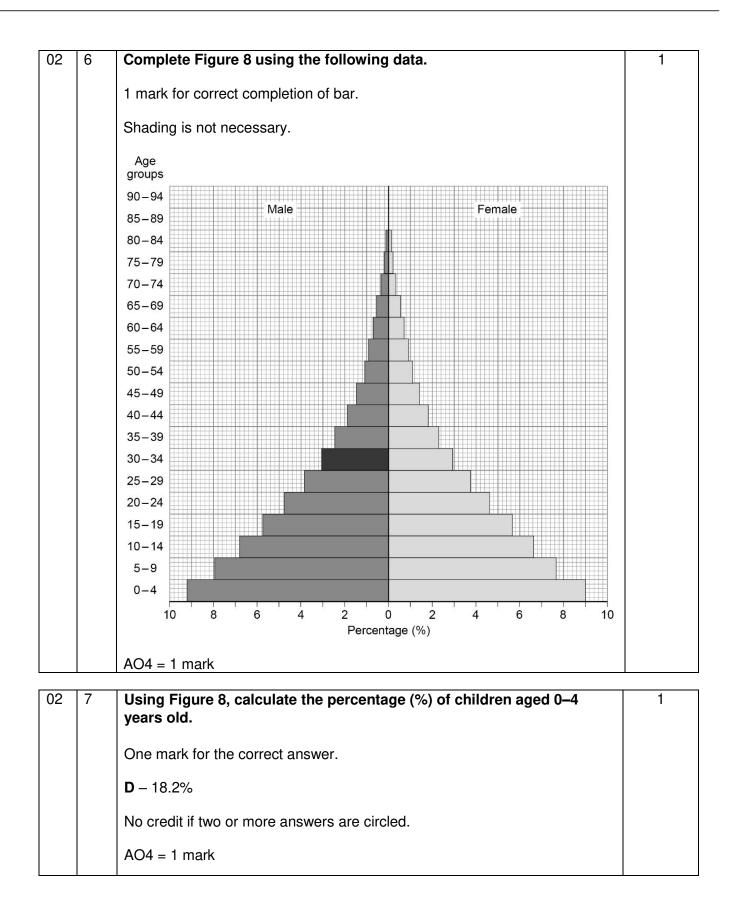
02	3	Which one of the following describes the change in secondary employment from 1966 to 2016?	1
		One mark for the correct answer.	
		B – It more than halves	
		No credit if two or more answers are shaded.	
		AO4 = 1 mark	

02	4	Outline one or more reasons for the decline of traditional industries in the UK.	3
		1+1+1	
		Or 1+1+1(d)	
		Or 1+1(d)+1(d)	
		Candidates should show that they can apply knowledge and understanding linking the factors to the resultant decline. Expect comments on increased mechanisation / robots, globalisation, outdated locations and practices, and government policy. Also credit reference to more recent trends such as 'green' policies reducing the demand for coal. Credit any reasonable explanation eg:	
		Machines and increasingly robots have reduced the need for labour (1) which leads to loss of jobs (1) and the closure of some plants with increased efficiency (1). Labour costs are lower abroad (1) which means they can produce goods more cheaply (1) so UK manufacturing close as they can't compete (1). Many traditional UK industrial areas are inland e.g. Sheffield (1) which adds to costs of transporting materials / importing raw materials as they are far from large ports (1) and so they are uncompetitive and close (1). Government policies such as privatisation (1) meant that state run industries were sold off (1) and many jobs were lost to make the companies more competitive (1) increasing demand/shift to tertiary/quaternary (1) office based jobs seen as more desirable (1) more educated workforce allows service industries to expand (1)	
		AO2 = 3 marks	

	5		-	ging economic and political links may affect the UK's vorld. Use Figure 7 and your own understanding.
		Level	Marks	Description
		3 (Detailed)	5–6	AO2 – Shows detailed understanding of the relationship between changing economic and political links and the UK's place in the wider world. AO3 – Demonstrates thorough application of knowledge and understanding to offer effective analysis of the resource and linking to the implications for the UK.
		2 (Clear)	3–4	AO2 – Shows clear understanding of the relationship between changing economic and / or political links and the UK's place in the wider world. AO3 – Demonstrates some application of knowledge and understanding to offer analysis of the resource with some effectiveness, linking to the implications for the UK.
		1 (Basic)	1–2	AO2 – Shows limited understanding of the relationship between changing economic and / or political links and the UK's place in the wider world. AO3 – Demonstrates limited application of knowledge and understanding to offer basic analysis of the

	UK.	ded linking to the implications for the
	0 No relevant con	itent.
 understand political link Level 2 res understand and / or pol analysis of Level 1 res understand of the implie Max top L2 	ing. There will be specified as and considered analys sponses will cover the fi- ing. There may be som- itical links, with some mo- the implications. sponses will cover the fi- ing. Points made will be	igure and / or some geographical le specific detail of changing economic ore generic statements and clear igure and / or limited geographical le basic and generic with limited analysis erstanding only.
 Answers shi interpreted As the quest suggestions The focus st the wider will The specific are studied Colonialism The figure st both econo UK may loc Economic Potent seen a Oppor new m The U with se The U TNCs import The U EU, will 	eed for balance answers nould focus on political a broadly. stion relates to a rapidly s given. should remain on how th orld, rather than a discu cit links to the global sta cation requires that the E but credit other appropri- n and the British Empire suggests that leaving the mic and political decision ok to build stronger trading tal to forge new trading as a global player. tunity to build on links w narkets. K could be seen as more ome LICs/NEEs. K could be seen as an u may leave the UK to rele- taxes after Brexit. K will save money from hich it can use to develo	European Union and the Commonwealth riate examples if used.

 If the UK is seen as unwelcoming to migrants it may not attract skilled workers and foreign investment, losing its place at the forefront of international business and innovation.
Political
 The UK will no longer have a decision-making voice in the EU. It may be harder for the UK to have international influence as it is seen
as less important now it is no longer part of a large group of countries.
 After Brexit the UK can make its own rules so it can forge alliances with other countries.
The UK may have a more powerful role in the Commonwealth as there are less members who are powerful HICs.
 However it may also have to make alliances with countries like the USA, where the balance of power is in favour of the other country.
The Queen is Head of State of the Commonwealth, which gives the UK some importance
 But although the Queen is the figurehead, the Secretary General is elected from different member countries.
AO2 = 3 marks AO3 = 3 marks



02	8	What is meant by infant mortality rate?	2
		 1+1 1 mark for accuracy in terms of death – 'children/babies who die (under the age of 1)'/ number of children who die 1 mark for the accurate description of rate – 'per 1000 (live) births per year'. AO1 =2 marks 	

02	9	Using Figure 9, suggest how population change in Stage 3 may have economic benefits.	3
		1+1+1	
		Or 1+1+1(d)	
		Or 1+1(d)+1(d)	
		Candidates should make reference to Figure 9 through reference to the birth and death rates and total population change shown in stage 3. They should show that they can apply knowledge and understanding by making the connection between stage 3 of the DTM and economic benefits.	
		Figure 9 shows birth rates falling, which means more money will be available in households (1) which can lead to increased spending in the country (1). Fewer babies being born can reduce the amount of money needed for maternity services and schools (1) which allows more to be spent on developing industry (1). As the total population increases there are more people to work in industry (1) so the country can increase its GNI (1).	
		Max 1 mark if no reference to Figure 9, at least implicitly. No credit for reference to population change in isolation.	
		AO3 = 3 marks	

02	10	Describe of LIC/NEE of		ore impacts that international aid has had on a named
		Level	Marks	Description
		2 (Clear)	3–4	AO1 – Demonstrates clear knowledge of international aid in a named country. AO2 – Shows clear understanding of the impact(s) of international aid.
		1 (Basic)	1–2	AO1 – Demonstrates partial or basic knowledge of international aid. AO2 – Shows limited understanding of the impact(s) of international aid.
			0	No relevant content.
		aid and I • Max L1 i applicabl <u>Indicative c</u> • Full mark • Credit aid microfina	imited un if no cour le. <u>content</u> <s are="" pos<br="">d only. N ance loan</s>	es will be simplistic with basic knowledge of international derstanding of the impact(s), which may be generic. htry named or if HIC country named but points still ssible for one well developed impact. lo credit for comments about debt, fairtrade or s. a link between the aid and the impact on the receiving
		 Answers educatio to infrast Negative corruptio Eg The L programming improve 	n, water s ructure o e impacts n or aid b JK gave s me. This their qua	Il depend on the country but may involve funding for supply and sewerage, disease prevention, improvements r farming techniques. are also creditworthy – such as tied aid, government being spent unwisely. E45 million to Tanzania to fund a family planning will allow women to control the size of their family and lity of life. helped provide clean water to over 12 000 people in their
		villages i educated food, sor Eg The L to improv Malaysia	n Malawi d, rather t me of whi JK gave a ve the sta t had to s	Their children can now spend more time getting han walking to collect water, and villagers can grow more ch can be sold, providing income. aid to Malaysia to build the Pergau Dam to make electricity undard of living of people in the cities. However in return pend more money buying weapons from the UK so their ess to spend on schools and hospitals.
		AO1 = 2 m AO2 = 2 m		

Level	Marks	Description
3 (Detailed)	5-6	AO1 – Demonstrates detailed knowledge of the operations of a TNC in a named LIC/NEE. AO2 – Shows a thorough understanding of how a TNC brings advantages and disadvantages. AO3 – Demonstrates thorough application of knowledge and understanding in evaluating the balance between advantages and disadvantages brought by a TNC.
2 (Clear)	3-4	AO1 – Demonstrates clear knowledge of the operations of a TNC in a named LIC/NEE. AO2 – Shows a reasonable understanding of how a TNC brings advantages and/or disadvantages. AO3 – Demonstrates reasonable application of knowledge and understanding in evaluating the balance between advantages and/or disadvantages brought by a TNC.
1 (Basic)	1–2	AO1 – Demonstrates basic knowledge of the operations of a TNC in a named LIC/NEE. AO2 – Shows a limited understanding of how a TNC brings advantages and/or disadvantages. AO3 – Demonstrates limited application of knowledge and understanding in evaluating the balance between advantages and/or disadvantages brought by a TNC.
	0	No relevant content.
 operation Level 2 retrieved the operation Level 1 retrieved the advantage between the operation 	of (a) TN esponse tion of (a esponse e(s) and them.	 s will provide well-reasoned connections between the NC(s) and the resulting advantages and disadvantages. s will provide clear reasoning of the connections between (b) TNC(s) and the resulting advantages and disadvantages will give basic link(s) between (a) TNC(s) and the disadvantage(s) that result or merely assert a connection mamed country.

Indicative content	
 A good grasp of the geographical processes is potentially as creditworthy as exemplar knowledge. Candidates are likely to have studied a range of TNCs and countries, with likely textbook examples being Unilever in India and Shell in Nigeria. Using the latter as an example: Answers should suggest advantages such as: Direct employment for 65 000 Nigerians and a further 250 000 indirectly. 91% of Shell contracts go to Nigerian companies. Shell makes significant contributions to Nigeria's tax coffers and thereby increases national wealth. Credit development of the above to show how they increase security of ampleument and thereby diapagehle increase aguerment revenue. 	
 employment and thereby disposable income, increase government revenue to allow funding of infrastructure and social provision, and create multiplier effects which have wider benefits. However answers should also address 'do you agree?' and will need to show disadvantages such as: × Oil spills, particularly in the Bodo region, cause conflict and resentment and ruin fishermen's livelihoods. × Oil flaring is still used, increasing greenhouse emissions and air pollution. 	
 × Oil wealth has provoked armed conflict and new terrorist groups such as the Niger Delta Avengers who cause loss of life and revenue for the government. Answers should be brought to a conclusion, with an overall evaluation of whether advantages outweigh disadvantages or vice-versa. Either view is perfectly acceptable. 	
AO1 = 3 marks $AO2 = 3 marks$ $AO3 = 3 marks$	

Section C

Qu	Pt	Marking Guidance	Total marks
03	1	 Which of the following continents has the largest number of countries with a score of 0 – 0.57? One mark for the correct answer. A – Africa No credit if two or more answers are shaded. AO4 = 1 mark 	1
		A04 = 1 mark	
03	2	Suggest how poor water supply may affect social well-being. 1+1+1 Or 1+1+1(d) Or 1+1+1(d) There is no requirement to refer to Figure 10, though candidates may choose to. They should show that they can apply knowledge and understanding by making the connection between either the quality of the water supply and / or unreliable / scarce water supply and the resultant well-being issues. Many LICs will not have access to a clean water supply which can lead to illness (1) such as typhoid / cholera (1) which clearly causes distress and death (1) people may get dehydrated (1) In many countries the water supply is very distant so people have to spend time walking to collect it (1) a task which often falls to girls and children (1) so they don't have a proper childhood / can't go to school. (1) there may not be enough water for cooking/cleaning/washing (1) Max 1 mark if no reference to social well-being, at least implicitly. Credit reference to agriculture/food supply/malnutrition AO3 = 3 marks	3

	Marks	Description					
2	3–4	AO1 – Demonstrates clear knowledge of changing					
(Clear)		demand for food in the UK. AO2 – Shows clear understanding of the impact(s) of					
		changing demand on carbon footprint.					
1	1–2	AO1 – Demonstrates partial or basic knowledge of					
(Basic)		changing demand for food in the UK. AO2 – Shows limited understanding of the impact(s) of					
		changing demand on carbon footprint.					
	0	No relevant content.					
_							
	-	es will provide clear knowledge of changing demand for					
 food in the UK and the resulting impact(s) on carbon footprint. Level 1 responses will be simplistic with basic knowledge of changing 							
deman	d and limit	ed understanding of the impact(s) on carbon footprint,					
	nay be ger						
Max L1	If country	other than the UK named but points still applicable.					
ndicative	<u>content</u>						
	•	ssible for one well developed impact.					
	•	Il depend on the impact(s) chosen but may involve year- r seasonal foods, increasing demand for high-value foods,					
	d for cheap						
	•	are also creditworthy such as demand for more local food.					
•	•	and for seasonal foods all year round means that this food					
	•	d such as apples from New Zealand or grown in the UK in ses such as Scottish strawberries. This means that CO2 is					
	•	from transport / cold storage or from heat and light used to					
grow the crops.							
		ods such as Avocados and Madagascan vanilla are					
• •	becoming increasingly common in supermarkets. These are around the world creating thousands of food miles and the higher the food miles the						
becomi	0						
becomi world c	reating the	roduced and the higher the UKs resulting carbon footprint.					
becomi world c higher t Eg Peo	reating tho he CO2 pi ple are be	roduced and the higher the UKs resulting carbon footprint. coming concerned about where their food comes from so					
becomi world c higher t Eg Peo may be	reating tho he CO2 pi ple are be buying me	roduced and the higher the UKs resulting carbon footprint. coming concerned about where their food comes from so					
becomi world c higher t Eg Peo may be reducin	reating the he CO2 pl ple are be buying mo g carbon f	roduced and the higher the UKs resulting carbon footprint. coming concerned about where their food comes from so ore locally at farmers' markets, which can have the effect o					
becomi world c higher t Eg Peo may be	reating the he CO2 pl ple are be buying me g carbon f narks	roduced and the higher the UKs resulting carbon footprint. coming concerned about where their food comes from so ore locally at farmers' markets, which can have the effect					

6

03 4

Discuss the challenges of the changing demand for water in the UK. Use Figure 11 and your own understanding.

Level	Marks	Description
3 (Detailed)	5–6	AO2 – Shows detailed understanding of the issues around water demand in the UK. AO3 – Demonstrates detailed application of knowledge and understanding by analysing the resource thoroughly and effectively discussing the issues arising.
2 (Clear)	3–4	AO2 – Shows some understanding of the issues around water demand in the UK. AO3 – Demonstrates some application of knowledge and understanding by analysing the resource with some effectiveness with some discussion of the issues arising.
1 (Basic)	1–2	AO2 – Shows limited understanding of the issues around water demand in the UK. AO3 – Demonstrates limited application of knowledge and understanding through simple analysis of the resource with limited discussion of the issues arising.
	0	No relevant content.

- Level 3 responses will provide a well-reasoned analysis of the resource, supported with thorough understanding of the issues.
- Level 2 responses will give a partially reasoned analysis of the resource supported with either thorough or generically appropriate understanding of the issues.
- Level 1 responses will show basic analysis of the resource with simple understanding of the issues that result.
- Max top L2 if Figure 11 or own understanding only.

Indicative content

- Figure 11 shows: increasing ownership of appliances that consume water; a trend for more bathrooms; spatial focus on demand in the SE.
- Candidates should be showing awareness of how these changes will present issues for the UK.
- Figure 11 should be used by reference to facts or figures given or description that is accurate enough to infer use of the resource rather than learned knowledge.
- Candidates should also be bringing their own understanding to the answer through discussion of the issues that result. Eg water consumption of appliances, number of UK households irrespective of population change (smaller household units), water surplus and deficit and the need for transfer, and rainfall variability in a changing climate.
- Credit any reasonable issues that result for example:
- Water demand per household is increasing as shown with more than doubling of dishwasher use, this will present a challenge to meet demand, especially when combined with the increasing number of UK households as unit sizes get smaller, effectively increasing demand still further.

• Demand is also more focussed on the SE of the UK, already the most populated area. This is made worse by the fact that this is already an area of rainfall deficit, so that the problem is compounded in one part of the UK. The challenge will lie in meeting this demand, probably through transfer from areas of water surplus. This then raises an issue of cost as such schemes are very expensive, so the challenge will be both technical and economic.
AO2 = 3 marks AO3 = 3 marks

Qu	Pt		Γ	Marking (Guidanc	e					Total marks
04	1	Plot the following	data on to	Figure 1	2.						1
		One mark for the co	rrect plot, r	need not	be name	d					
		4000									
						Sou	th Korea	USA			
		3500-			Morocco	Brazil	oland ● Argentina	● UK Spain	Norway		
		Food 3000 ⁻ consumption (kilocalories			Indonesi Angola		●Bulgaria	●Japar	h		
		per person 2500 - per day)	B Ethiopia●	angladesh● Kenya _● ● Afghanis	Pakistan	2	Botswan	a			
		2000 -	• Central African	Republic							
		1500 -									
		50	0 1000		000 800 US\$ per pe			000 64	000 128	000	
		AO4 = 1 mark									
04	2	Which country is i	dentified b	v the fol	lowing c	lata?					1
		Spain.			U						
		AO4 = 1 marks									
04	3	Draw a best fit line	on Figure	12.							1
		One mark for correct straight line from low			oe in the	centre	of the	scatter	, and a		

AO4 = 1 marks

04	4	Describe the relationship between GNI and food consumption shown in Figure 12.	2
		Answers should make use of Figure 12 through naming countries and quoting figures in order to describe the relationship.	
		One mark for a basic statement, eg	
		 Positive correlation (1). As GNI increases so does food consumption (1). Countries with high GNI have a high food consumption (1). 	
		Second mark may be a second separate point or developed point for further clarity eg	
		 Positive correlation (1) so that as GNI goes up so does the food consumption per person (d)(1). As GNI increases so does food consumption (1) with anomalies such as Morocco (d)(1) which has high food consumption but only moderate GNI (d)(1). Countries with high GNI have a high food consumption (1) though Japan is an anomaly (d)(1) with high GNI but a lower food consumption than the trend suggests (d)(1). 	
		Max 1 for opposites or list of names / data.	
		Credit illustration of relationship with examples from graph for second mark	
		No credit for explanation.	
		AO4 = 2 marks	

04	5	Outline one or more reasons for the link between GNI and food consumption.	3
		1+1+1	
		Or 1+1+1(d)	
		Or 1+1(d)+1(d)	
		Candidates should show that they can apply knowledge and understanding of the link between GNI and food supply. Expect recognition that food consumption increases as a consequence of increased wealth and development, though not always universally. Allow awareness that calorie consumption may go up due to higher consumption of processed and calorie dense foods. Credit any reasonable explanation eg:	
		At lower stages of development countries rely on subsistence farming (1) which leads to a low GNI (1) and is dominated by the production of staple cereal crops which provide fewer calories (1). As countries increase in wealth they are able to buy more food (1) this can mean an increased consumption of ('richer') foods (1) including meat and dairy which are more calorie dense (1), there is also a change to more 'westernised' diets (1) which will involve increased meat and higher calorie consumption (1). Japan illustrates that wealth does not always lead to increased calorie intake (1) as cultural norms lead to a healthier diet with fewer calories (1).	
		AO2 = 3 marks	

04	6	Give two impacts of food insecurity.	2
		One mark for each correct answer.	
		Credit any reasonable answer which states an impact / effect resulting from food insecurity, even if indirectly.	
		Malnutrition, undernutrition, disease (accept disease if simply named e.g. kwashiorkor), reduced ability to work, rising food prices, social unrest / political instability, soil erosion, poor quality of life, famine, death	
		AO1 = 2 marks	

		supplies have been made more sustainable. a local scheme in an LIC/NEE.
Level	Marks	Description
3 (Detailed)	5–6	 AO2 – Shows thorough geographical understanding of how different actions contribute to sustainability in food supplies. AO3 – Demonstrates detailed application of knowledge and understanding by interpreting the link between the
		actions in the scheme and sustainability.
2 (Clear)	3–4	 AO2 – Shows reasonable geographical understanding of how different actions contribute to sustainability in food supplies. AO3 – Demonstrates some application of knowledge and understanding by interpreting the link between the actions in the scheme and sustainability.
1 (Basic)	1–2	 AO2 – Shows limited geographical understanding of how different actions contribute to sustainability in food supplies. AO3 – Demonstrates limited application of knowledge and understanding through simple interpretation of the link between the actions in the scheme and sustainability.
	0	No relevant content.

- Level 3 responses will cover a named local scheme in detail and link this to how it provides a more sustainable food supply.
- Level 2 responses will give specific detail of a named local scheme with a generic link to sustainability or generic ideas about a non-specific local scheme with a more specific link as to how it provides a more sustainable food supply.
- Level 1 responses will cover a local scheme in a basic manner, which may not be named and / or merely assert the sustainability.
- Max L2 if scheme not named or cannot be inferred.
- Max L2 if HIC/ large scale scheme but comments could still apply.

Indicative content

- Likely examples are: rice-fish farming in Bangladesh, Sand dams in Kenya, Agroforestry in Mali.
- Clearly the exact content will vary according to the development chosen, but is likely to include:
 - o Improvement in crop yields and therefore food security.
 - $\circ\,$ Reduction in time spent farming and fetching water.
 - $\circ\,$ More balanced diet with items from different food crops rather than just one staple crop.
 - $\,\circ\,$ Reduction of soil erosion and desertification.
- Sustainability will equally vary according to example but is likely to include:

 More 'closed' systems are inherently more sustainable as they reduce dependence on external inputs. The soil is retained for future years so crops can go on being produced. Mutual benefit from rice-fish as fertiliser / wet environment and trees as shade and shelter / anchor to retain the soil mean that the systems can continue into the future. Credit wider ideas of sustainability such as reduction in depopulation so rural areas can maintain their populations and therefore have a future. 	
AO2 = 3 marks AO3 = 3 marks	

Qu	Pt	Marking Guidance	Total marks
05	1	Plot the following data on to Figure 13. One mark for the correct plot, need not be named Basic water supply in rural areas (%) Basic water supply = access to water within 30 minutes	1
05	2	AO4 = 1 mark Which country is identified by the following data?	

05	2	Which country is identified by the following data?	1
		Sudan.	
		AO4 = 1 mark	
05	3	Draw a best fit line on Figure 13.	1

 -		
	One mark for correct line which should be in the centre of the scatter, and a straight line from lower left to top right.	
	AO4 = 1 mark	

05	4 Describe the relationship between GNI and access to a basic water supply shown in Figure 13.						
		Answers should make use of Figure 13 through naming countries and quoting figures in order to describe the relationship.					
		One mark for a basic statement, eg					
		 Positive correlation (1). As GNI increases so does the water supply (in rural areas) (1). Countries with high GNI have a good water supply (in rural areas) (1). 					
		Second mark may be a second separate point or developed point for further clarity eg					
		 Positive correlation (1) so that as GNI goes up so does the water supply (in rural areas) per person (d)(1). As GNI increases so does water supply (in rural areas) (1) with anomalies such as Bangladesh which has good water supply (in rural areas) but only moderate GNI (d)(1). Countries with high GNI have a good water supply (in rural areas) (1) though Equatorial Guinea is an anomaly with high GNI but a lower water supply (in rural areas) than the trend suggests (d)(1). 					
		Max 1 for opposites or list of names / data.					
		No credit for explanation.					
		Credit illustration of relationship with examples from graph for second mark					
		AO4 = 2 marks					

05	5	Outline one or more reasons for the link between GNI and water supply.	3
		1+1+1	
		Or 1+1+1(d)	
		Or 1+1(d)+1(d)	
		Candidates should show that they can apply knowledge and understanding of the link between GNI and water supply. Expect recognition that water supply improves as a consequence of increased wealth and development as the government is able to fund improved infrastructure and this is particularly the case by being able to extend the reach further / to rural areas and not just the cities. Credit any reasonable explanation eg:	
		At lower stages of development countries have a low GNI (1) which means they can't fund infrastructure such as water supply (1), this is particularly true in rural areas which may be more remote (1). As countries increase in wealth they are able to spend on infrastructure (1) which will often focus on water supply (1) to reduce the burden of disease / because it is the most basic need (1), wealth may also mean that local areas are able to fund their own water supply (1). Bangladesh illustrates that wealth is not essential to provide a water supply (1) as priorities or individual country circumstances may affect supply (1).	
		AO2 = 3 marks	
05	6	Give two impacts of water insecurity.	2
	U	One mark for each correct answer	

Credit any reasonable answer which states an impact / effect resulting from

Disease (accept diseases if simply named e.g. cholera), reduced food production, reduced industrial output, reduced ability to work, potential for

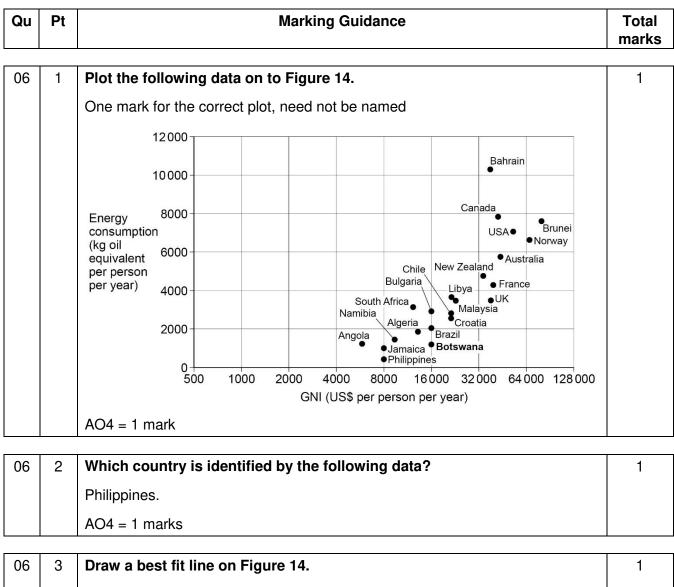
water insecurity, even if indirectly.

AO1 = 2 marks

conflict over access to supply, poor quality of life

Level	Marks	Description
3 (Detailed)	5–6	 AO2 – Shows thorough geographical understanding of how different actions contribute to sustainability in water supplies. AO3 – Demonstrates detailed application of knowledge and understanding by interpreting the link between the actions in the scheme and sustainability.
2 (Clear)	3–4	 AO2 – Shows reasonable geographical understanding of how different actions contribute to sustainability in water supplies. AO3 – Demonstrates some application of knowledge and understanding by interpreting the link between the actions in the scheme and sustainability.
1 (Basic)	1–2	AO2 – Shows limited geographical understanding of how different actions contribute to sustainability in water supplies. AO3 – Demonstrates limited application of knowledge and understanding through simple interpretation of the link between the actions in the scheme and sustainability.
	0	No relevant content.
	-	s will cover a named local scheme in detail and link this
how it pro • Level 2 ro generic lin	ovides a r esponse nk to sust vith a mo	s will cover a named local scheme in detail and link this nore sustainable water supply.
how it pro Level 2 r generic lin scheme v water sup Level 1 r	ovides a n esponse nk to sust vith a moto oply. esponse	 s will cover a named local scheme in detail and link this nore sustainable water supply. s will give specific detail of a named local scheme with a tainability or generic ideas about a non-specific local re specific link as to how it provides a more sustainable
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 Sustainability will equally vary according to example but is likely to include: Using more appropriate technology, ie they are lower cost and easier to maintain. Water is retained during the rainy season for the dry season to make the supply more even through the year. Small scale promotes local involvement so the locals have a stake in making the system work. Credit wider ideas of sustainability such as reduction in depopulation so rural areas can maintain their populations and therefore have a future. 	
AO2 = 3 marks AO3 = 3 marks	



06	3	Draw a best in line on Figure 14.	I
		One mark for correct line which should be in the centre of the scatter, and a straight line from lower left to top right.	
		AO4 = 1 marks	

06	4	Describe the relationship between GNI and energy consumption shown in Figure 14.	2
		Answers should make use of Figure 14 through naming countries and quoting figures in order to describe the relationship.	
		One mark for a basic statement, eg	
		 Positive correlation (1). As GNI increases so does the energy consumption (1). Countries with high GNI have a high energy consumption (1). 	
		Second mark may be a second separate point or developed point for further clarity eg:	
		 Positive correlation (1) so that as GNI goes up so does the energy consumption per person (d)(1). As GNI increases so does energy consumption (1) with anomalies such as Bahrain which has high energy consumption but only moderate GNI (d)(1). Countries with high GNI have a high energy consumption (1) though the UK has a lower energy consumption than many others with a similar GNI (d)(1). 	
		Max 1 for opposites or list of names / data.	
		Credit illustration of relationship with examples from graph for second mark	
		No credit for explanation.	
		AO4 = 2 marks	

06	5	Outline one or more reasons for the link between GNI and energy consumption.	3
		1+1+1	
		Or 1+1+1(d)	
		Or 1+1(d)+1(d)	
		Candidates should show that they can apply knowledge and understanding of the link between GNI and energy consumption. Expect recognition that energy consumption is a consequence of increased wealth on both a national scale through industrialisation and urbanisation and on a personal scale through the ability to afford energy intensive activities. Credit any reasonable explanation eg:	
		At lower stages of development countries have a low GNI (1) which means they can't afford to spend money on energy (1). As countries increase in wealth they are able to spend on developing industry / exploiting further energy sources (1) which will lead to a higher energy consumption (1) and increase the availability of energy consuming products (1). Industrialisation may increase personal wealth (1) which will allow purchase of consumer products which will use more energy (1). In HICs technology can lead to cheaper energy (1) which can then lead to increased consumption without increasing the cost of use (1).	
		AO2 = 3 marks	
06	6	Give two impacts of energy insecurity.	2

0)6	6	Give two impacts of energy insecurity.	2
			One mark for each correct answer.	
			Credit any reasonable answer which states an impact / effect resulting from energy insecurity, even if indirectly.	
			Exploration of difficult and environmentally sensitive areas, environmental damage, increasing costs, loss of industrial output, unemployment, potential for conflict over access to supply, poor quality of life	
			AO1 = 2 marks	

Level	Marks	Description
3 (Detailed)	5–6	 AO2 – Shows thorough geographical understanding of how different actions contribute to sustainability in energy supplies. AO3 – Demonstrates detailed application of knowledge and understanding by interpreting the link between the actions in the scheme and sustainability.
2 (Clear)	3–4	 AO2 – Shows reasonable geographical understanding of how different actions contribute to sustainability in energy supplies. AO3 – Demonstrates some application of knowledge and understanding by interpreting the link between the actions in the scheme and sustainability.
1 Basic)	1–2	 AO2 – Shows limited geographical understanding of how different actions contribute to sustainability in energy supplies. AO3 – Demonstrates limited application of knowledge and understanding through simple interpretation of the link between the actions in the scheme and sustainability.
	0	No relevant content.
	-	
 how it pro Level 2 r generic li 	ovides a r esponse nk to sus vith a mo	s will cover a named local scheme in detail and link this to nore sustainable energy supply. s will give specific detail of a named local scheme with a tainability or generic ideas about a non-specific local re specific link as to how it provides a more sustainable
 how it provide the provided the	ovides a r esponse nk to sus vith a mo upply. esponse	nore sustainable energy supply. s will give specific detail of a named local scheme with a tainability or generic ideas about a non-specific local re specific link as to how it provides a more sustainable
 how it product of the sector of the	esponse nk to sus vith a mo upply. esponse med and scheme HIC / lar	 s will give specific detail of a named local scheme with a tainability or generic ideas about a non-specific local re specific link as to how it provides a more sustainable s will cover a local scheme in a basic manner, which may
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how it pro	esponse nk to sus vith a mo upply. esponse med and scheme for extrac ontent amples a ants in B	nore sustainable energy supply. s will give specific detail of a named local scheme with a tainability or generic ideas about a non-specific local re specific link as to how it provides a more sustainable s will cover a local scheme in a basic manner, which may / or merely assert the sustainability. not named or cannot be inferred. ge scale scheme but comments could still apply. ction of a fossil fuel. re: Micro-hydro schemes in Peru and Nepal, Rice husk ihar, India. content will vary according to the development chosen, bu

 Reduction in air pollution as need for diesel / kerosene generators is removed.
 Sustainability will equally vary according to example but is likely to include: Using more appropriate technology, ie they are lower cost and easier to maintain.
 Energy supply is more consistent and avoids costs of oil increasing on the world markets. Small scale promotes local involvement so the locals have a stake in making the system work. Less need to burn fuelwood, reducing deforestation risk. Reduced danger of flooding as micro-hydro schemes help regulate flow.
• Credit wider ideas of sustainability such as reduction in depopulation so rural areas can maintain their populations and therefore have a future.
AO2 = 3 marks AO3 = 3 marks