



Examiners' Report June 2011

GCE Geography 6GE03 01

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Introduction

Question popularity in Section A:

Candidates attempted all questions in Section A, although there were differences in popularity. As in the past, Energy Security and Water Conflicts were popular choices. The Technological Fix topic was more popular than in previous series with slightly fewer candidates choosing the Superpower Geographies option:

- Q1 Energy Security 30%
- Q2 Water Conflicts 25%
- Q3 Biodiversity under Threat 12%
- Q4 Superpower Geographies 15%
- Q5 The Technological Fix? 17%

General comments on Section A:

The majority of candidates attempted two questions in Section A and rubric offences were very rare. Candidates in general seemed to divide their time between their two Section A choices fairly evenly although a minority spent too long on one of their choices. The quality of work in this part of the exam paper was generally good. The range of performances for the Technological Fix question was better than in the past, when it has frequently been polarised between very good and rather weak responses. General observations which centres may wish to consider include:

- A tendency by candidates to either **plan** too much i.e. very long, time consuming Unit 4 style plans, or not plan any answer to any question or sub-question. For the 15 mark essay style questions in Section A, a brief plan is advisable.
- Over-reliance on **descriptive case study use** (especially in the Water, Energy and Biodiversity questions) rather than selective application of data and information to the question.
- Very long answers to the 10 mark part 'a' questions and much shorter answers to the 15 mark 'b' parts – in other words the **balance** of a candidates answer in relation to the mark allocation is incorrect.
- Some **basic geographical misconceptions** e.g. the assertion that Ghana is 'arid' or a 'desert' because it is 'on the equator' rainfall in Ghana ranges from around 1000mm per year in the north to over 2000mm on the southern coast.
- A tendency, by a significant number of candidates, to only see the **negative** side of 'consequences' or 'impacts'.

Many candidates would improve their answers in Section A if they:

- Focussed on explaining / giving reasons for the full **range** of geographical data provided in the Figures.
- Avoided long-winded, **generalised introductions** and began their answers with a succinct definition or brief statement providing a structure for the rest of their answer.
- Practiced using the **language of explanation** (*why, because, caused by, reasons*) and **assessment** (*however, on the other hand, whereas, overall etc*) and recognised that different command words demand different approaches.
- Used a **broader range of smaller examples** rather than being overly reliant on one or two major case studies which often do not relate well to the question.

Section A

Question 1 Energy Security

Figure 1 raised a number of issues. Some candidates did not fully comprehend the significance of electricity generation i.e. that the data was not for total primary energy use but the sources used to produce electricity. The difference between primary and secondary energy is important. A key aspect of Figure 1, ignored by many, was that total electricity generation tripled between 1973 and 2006. Reasons for this include population growth, industrialisation in Asia, rising affluence and changing technology.

It was also important to recognise the difference between relative and absolute change. For instance, the % of electricity generated by HEP fell between 1973 and 2006 but the actual amount generated increased – therefore arguments that the number of HEP dams had fallen were not correct.

Many candidates argued that peak oil was the main cause of the decline in the % of energy produced from oil whereas rising prices (especially during the 1970s oil crises) and the need to use oil for transport are more significant factors globally. A number of candidates dealt with either the overall rise in electricity or specific source changes, but not both. Better candidates offered a range of reasons including the continued cheap cost of coal, developments in renewable technology, the rise of environmentalism, the increased security provided by nuclear power in some countries e.g. France and Japan. The reasons for the large rise in gas generation where not mentioned very often despite these being highly significant to the UK in particular.

In Question 1b a range of examples were used to illustrate conflict, or the potential for conflict, over energy sources. Better responses made it clear whether these illustrated conflict within or between countries – others did not do this and often these answers lacked clarity and precision. A minority of candidates seem to equate 'conflict' only with warfare whereas from a geographical standpoint the word encompasses a spectrum from localised arguments to outright warfare. Common examples / case studies included:

- Russia / Ukraine and Gazprom this was usually factually correct and related to the question.
- California blackouts often described in terms of a problem rather than a conflict.
- Arctic oil and gas generally well known and the main countries involved clearly stated.
- Middle East frequently inaccurate especially in relation to the reasons for the Gulf Wars i.e. oil as a factor but not the only factor. Afghanistan was sometimes mentioned as being oil rich and therefore the UK and USA were fighting in that country.
- ANWR / Tar Sands generally well understood and used with accuracy.

Overall, there was more limited use of relatively well-known, often quite local, conflicts within countries such as the NIMBY issues associated with wind farms, environmental debates over proposals such as Kingsnorth or the Severn Barrage (candidates might note that the Thames Barrage does not generate electricity) or the debate over nuclear power. Better answers assessed the significance of conflict, for instance arguing that conflict between countries was potentially more serious economically or else stating that conflict within countries was often about choice of energy source whereas conflict between was concerned with procuring a reliable supply.

This is the opening part of an answer to question 1a, which gained a Level 3 mark of 9.

a) Engest reasons for the changes to global electricity between 1973 and 2006 (10 Hobal electricity generation grow by 12,900 Twh between 1973 and 2006 with look increasing its percentage as a source for electricity generation by 3%. The (ise of the emerget nations (BLIC'S) trazil, suria, india and diena des created a larger global Consumption of energy much of it sourced externally In 2003 china was opening 2 coal girld fower Stations a neck to guel its economy which was doubling every & years. Gas as a source has increased from 12% to of all electricity generated, this is largely due to bazprom owning 9210 of all russia's cas fields, since the col the usst and a gree maket approach pussion's industral elonomy has grown by Boto much of this being greled by with the advent of nuclear fusion growth germany and many other vesters societies

Las inschild the production share by 1290. Between 1973 and 2006 as estimated 400 mules power fault came caline, many countries our lais as a way of diversifying their electricity sources to challe higher levels of energy bots pets such as the width all for carry in the security.



Results Plus

Examiner Comments

This answer is analytical as it calculates the increase in global electricity generation between 1973 and 2006, then provides a clear reason for the overall increase. The answer then moves into explanations of the change in specific energy sources and this is supported by reference to examples such as China, Gazprom and nuclear power plants.



Notice how this candidate writes out the question, and underlines key and command words. This is a good way of focussing your mind on what you need to write about.

This is part of an answer to question 1b, specifically the end of an answer and the conclusion. The whole answer gained maximum marks.

Although energy insecurity has a smoot potential to cause tensions, the picture is not in black and white and there is evidence that countries and interest groups are able to tester cooperation on energy related matters. For example The kyoto Protocol shows a unity of countries and the ability to make decisions together. With energy running out, it is clear that the core countries want to make londs to help the developing narrows as well such

Therefore there is potential for energy security to unite counties as well as current that past evidence points to the fact that energy insecurity will always be a cause of conflicts and increasing insecurity is only going to women the problem Hawing said this there is definite evidence of cooperation among and within counties as well.



Having explained a range of conflicts within and between countries, this candidate assesses the extent to which energy security might lead to conflict by recognising that in some cases countries can cooperate. The Kyoto protocol example is not ideal, but the approach to answering the question is good. There is a clear conclusion, linked back to the question.



This candidate's conclusion is only 7 lines, but it does 'round off' their answer and provides and overview of what they have argued.

Question 2 Water Conflicts

There were a number of different ways candidates might have structured their answer to Q2a e.g. by water use type (domestic, industry, agriculture) or by country. Generally the former were more successful as this allowed for an explanation based on contrasts between selected countries. Some candidates failed to recognise that the data provided was per capita and not total water use - this led to some spurious reasoning based on differences in population size. The most common explanation provided was that of development level (wealth / poverty) and some candidates failed to move beyond this. Better answers related water use to economic water scarcity (in Ghana and Egypt), the presence / absence of water delivery infrastructure, the perceived wastefulness of water use in the USA compared to the (argued) more efficient system likely to operate in Germany. There was a place for discussing physical explanations such as high farm evaporation rates in Egypt, abundant supply in temperate Germany and highly seasonal / unreliable rainfall in northern Ghana these explanations were seen much less commonly than might have been expected. Many candidates included global warming although most seem to believe that this will bring universally hotter and drier conditions; candidates should know from Unit 1 that the picture is likely to be more complex and regional.

In Q2b an issue that applied to some students was their apparent desire to answer a question on water conflicts, rather than the impacts of using transboundary water sources. Case studies of water conflict seem to be very much to the fore in some candidate's minds but they need to be aware that the question does not always have this focus. A common approach was to define transboundary sources and then describe two case studies in detail e.g. the GAP project and the Aral Sea. Within these accounts there were often examples of impacts on people and the environment but also a great deal of other detail which was marginal in terms of relevance. Many candidates seemed happy to leave it to the examiner to extract the impacts from their answer rather than stating them clearly. Other answers increasingly drifted from transboundary into water resources in general as their answer developed. Positive impacts were rarely seen, despite that fact than many transboundary schemes aim to increase water provision at least to some players. Better answers provided some assessment which often took the form of recognising that environmental impacts are more frequently negative whereas human impacts are more variable – the idea of winners and losers. Others made the valid point that international transboundary situations seem to produce more serious impacts as one party ignores the needs of another. Especially in the Water Conflicts question, candidates must choose their examples and case studies carefully and select information that is relevant to the question rather than taking the 'everything I know about X' approach.

This example is part of a Level 3 answer to question 2a on water consumption.

Egypt is an arid/semi-arid climate, that in itself creating issues of water supply. The high temperaties mean evaporation rates are high, and surface stores are low. Being a power nation. Egypts exports rely heavily an primary products and cash crops this brade in virtual water has heavy exects on the noter avoilable to it's own nation. The high temperatures mean importan of formland and cattle water account for nearly 70% of it's water use. Again & Egypt lacks the infastrictive to reach all its population. and the industry sector to slowly increasing. Chana, one of the world's poorest nations has very little access to water supplies being in one of the direct climates on earth, Sub-schoran Africa It's pour economic availability means the population faces both economic and physical water SCOTE by and is in a period of water poverty. It has very little industry or forming, whomen walking for miles to collect water to support their familes. These combits rely on NGO: like "water and to provide their water.



Results lus

Examiner Comments

There are some good country-based explanations referring to both physical and economic reasons. Some direct reference is made to data from Figure 2 which is good. Like many candidates this example stated that Ghana is arid, which is not the case.



Results lus

Examiner Tip

World maps are a common resource. In order to interpret them correctly candidates do need to have secure knowledge of global physical geography such as the position of major lines of latitude, climate zones and biomes.

This is an example of the end of a Level 4 answer to question 2b on the impacts on using trans-boundary water sources on people and the environment.

It must not be pargotten that transbounding under somes can be used homoniously as the River Nile now is, as a result of an agreement

between several North African Combries

To use it responsibly. However, Mis is

different to India and Bangladoon and

the USA and Mexico (Colorado River) as

the nidest and must pomerful

Country Egypt is at the mouth not

the Source. Overall, the impact of

transborrolary water some usages is

negative both environmentally and

Socially as Smaller less impressal

countries super the effects of

pollution greed and industrial aboves

by the larger more powerful

nations



The end of this answer gives a strong clue as to which examples have been used in the main part of the answer (the Nile, Colorado and Ganges). It also makes an interesting assessment, recognising that some transboundary sources are used 'harmoniously' and that the physical position of most powerful sharing country matters. Notice that direct reference is made to social and environmental impacts, which is the focus of the question.



Using key words from the question in the conclusion ties the answer back to the original question and helps show the examiner that the correct focus has been maintained.

Question 3 Biodiversity under Threat

Figure 3 showed three ecological footprint scenarios. There was generally good understanding of what Figure 3 showed but in many cases a reluctance to link the three scenarios to consequences (positive and negative) for biodiversity. In some cases, while comments were made on the three scenarios, these were generalised and were focussed more on wider environmental issues (pollution, global warming) than specifically linked to biodiversity. Better candidates supported their answer with reference to a range of specific examples such as:

- Scenario 1 deforestation in the Amazon, increased temperatures in the Arctic leading to disrupted food chains and extinction of key species, lack of time for species to adapt or migrate due to the pace of change, overfishing leading to marine food web collapse.
- Scenario 3 named examples of ecosystem restoration, conservation and management.

Scenario two proved more problematic for some. Better answers recognised that it would be likely to result in a slowing down of the pace of destruction / extinction but not lead to recovery or even necessarily a halt to degradation. Many candidates argued that Scenario 3 would lead to an *increase* in biodiversity, which in reality is very unlikely as species which are already extinct cannot be recovered and many ecological areas cannot be restored. Terminology such as extinction, trophic levels, endemic , islandisation etc was not used with accuracy in many cases. It needs to be remembered that this topic does contain physical geography and an understanding of processes is important.

In Question 3b good answers chose two strategies and used examples to illustrate these. Weaker answers tended to choose two examples but never make clear what the strategy was. A wide range of strategies, at any scale, could have been chosen. There were many contrasts based on using ex-situ and in-situ as well as many others. Weaker answers tended to name examples such as Korup, Kilim, the SMMA or Campfire but not actually explain what the strategy was i.e. a marine reserve, biosphere reserve, total protection etc. Tourism was sometimes named as a strategy for managing biodiversity. While tourism, or ecotourism, is often part of a strategy (for instance, providing funds for conservation) it is not on its own a way of managing biodiversity. Some good answers were seen which used Debt-for-Nature swaps as an exemplified strategy. These often made clear reference to advantages and disadvantages, for instance arguing that incentives to protect were provided but that structures to ensure management was successful were less frequently in place. Better answers used a summative assessment to make a judgment about which strategy was likely to best manage biodiversity.

This is an example of part of an answer to question 3a on biodiversity and the consequences of different ecological footprint scenarios on biodiversity. The whole answer gained 8 marks.

Scenaro 2, stabilisation, would see a half to rate of loss to biodiversity. Whilst the dampage to The planet will be inveresible it would stop the decline in health of many of the world's brodiversity hotspots enservation are areas would be manhained that resource own to try and increase the populations bio diversity by tar. causing moverable damage. So whilst eshing resources, they can be easily the This would see the earth's increase as conservation exports were towards a driver need



This is a reasonably good answer, with direct reference to the scenarios. It is well structured and has some support e.g. North Sea fishing quotas. There is also some use of good terminology. Like many answers, this one suggests that biodiversity might increase under scenario 3 which is unlikely; nevertheless this is a minor point within an otherwise good answer.



Many answers to Biodiversity under Threat questions tend to drift away from ecosystems, biomes and biodiversity into more general environmental concerns and pollution. Make sure answers stick to the focus of the topics in the specification.

Question 4 Superpower Geographies

This question was less popular than in the past when it has appeared in Section A of this examination paper. This might be explained by Q4b which focussed on theory and may have put some candidates off. Nevertheless, the topic seems to genuinely spark the interest of many students and examiners often read interesting, knowledgeable answers where candidates are clearly engaged with the global shifts in power and prosperity which they are living through.

Question 4a used a table of data on various aspects of power. The question was answered well by many and the data was generally understood. This question asked candidates to explain why the data had been used to produce the superpower index. This question is different to:

- Explain how the data illustrates superpower status.
- Compare the status of the countries in the index.

Answering the two questions above might partially answer the actual question but will not wholly answer it. A number of candidates did not read the question carefully enough and wrote a somewhat tangential response. Candidates need to be aware of reading the question in conjunction with the Figure and not 'deciding' what the question is based on what the Figure looks like.

Some very good answers were seen commenting on the how workforces and military personnel depended on a large population and noting the cultural influence of TNCs. Many candidates were prepared to explain that other data might have been used, or comment that combining population and total GNP could yield per capita GNP. Weaker answers tended to be comparative and descriptive and lack reasoning.

The wording of Q4b was essentially taken directly from the specification. In general, knowledge and understanding of world systems theory and dependency theory was good. Many candidates outlined and explained the theories well but often in a rather 'static' way i.e. there was limited linkage to how the theories might contribute to changing patterns of power. Some were sidetracked into very deceptive accounts of how the relationship between for example, the UK and Ghana, showed how dependency theory worked but failed to link this to changing patterns.

Many candidates used the Rostow model effectively and were able to link this theory to changing patterns i.e. the recent growth of the BRICs, perhaps because this model includes a time element whereas dependency and world systems are spatial. There were many good answers which related dependency theory to China's recent internationalism especially its moves into Africa in terms of FDI. This approach often worked well as the overall shift in power towards Asia would be tied into world systems theory and then linked to the increasing dependence of Africa on Chinese money. Mention was often made of the way that the Asian Tiger economies had managed to 'break' the dependency mould and hence, it was argued, world systems theory had a greater contribution to make in terms of understanding changing patterns. Some answers were interestingly focussed on historical geography although often these failed to move forward and discuss more recent changing patterns.

This is the first page of a Level 3 answer to question 4a, which asked candidates to explain why a range of data had been chosen to be included in an index of superpowers.

Superpowers are world leaders, They are commies
Which have a large world wide Influence and hold control
over different areas. Five factors which should be included
When measuring a countries incluence are military, economic,
Cultural, environmental and social power. Of all of these, in
the time we are in now I would class aconomic power
to be the most important. The table in Figure 4
is also largely based around economy to creat a
Superpover index.
First og all, why has a table judging Aspects of a
Superpower been created? It is useful to using different
Aspects of a Courries power to rate then against each
Other, This is an easy way to compare them and
their strengths and reaknesses and see which areas have the
most impact on being a superpover.
Population has been put in the hable to see the size of
an estimated workgorce and also to compare where this
puts them in terms of depart size so you can see
how many people the countries ingluence



This is a good answer. However, like many answers this one begins with quite a long introduction defining what a superpower is and some general reasons why the index might have been created. None of this is incorrect, but it is not really needed. Towards the end of the first page the answer begins to discuss population – one of the pieces of data in Figure 4. This answer went on to explain the inclusion of all of the data in depth. Spending time on a long introduction to the 10 mark data stimulus questions means some candidates run out of time on other questions.



Start your answer with a definition, taking up perhaps 2 or 3 lines, then get straight into answering the question directly. This candidate should have started explaining the inclusion of population data after the word "areas" on the third line.

This is part of a Level 4 answer to question 4b, which focussed on the value of theories in contributing to an understanding of changing patterns of global power.

b) There are different views on the changing patterns of global power. The world may become multipliar with the rise of Bric countries and the dominance of the USA may diminish, or the USA will remain the world's only super power. The theories on global power world system them, Dependency Theory and Roshow Model

understanding of global pattern changing patterns of power.

The Dependency theory is a communist and possionistic riempoint that of the "devel opment of anderdevelopment". The theory suggests that developed countries exploit developing nations for their rounces and in him, developing countries become more dependent on this exploitation, almost in a colonial fashion thouse, this theory is undermised by the rise of the Asian Tiges which were developed due to the economic input of the USA in return for reduced trade bassiers (a free market). This theory however, may explain the poverty in Africa and its inability to developed.

Results lus

Examiner Comments

This answer includes good terminology such as 'multipolar' and 'BRIC'. In the introduction it sets its stall out by mentioning 3 theories and uses key phrases from the question such as 'changing patterns of power'. There is a good outline of dependency theory which avoids being diverted into a major case study. A very good aspect of this answer is that it recognises that the theory might explain the situation in Africa, but fails to explain the rise of the Asian Tigers – this is beginning to address the idea that theory is useful, but not entirely so.



A brief introduction to the 15 mark questions, which sets out the argument / direction of the answer, is a good idea as the examiner can see that the answer is likely to be logical and organised.

Question 5 The Technological Fix?

Figure 5 showed the life cycle of a mobile phone and some stimulus text. As is often the case when a Figure contains text many candidates re-wrote it, sometimes in a rather elegant way, but failed to add in any of their own ideas and examples to support their points. Better answers set out a structure using the question as a cue i.e. positive and negative consequences, for people and the environment (rather like a mental 'grid'). This structure worked very well, although candidates do need to be aware that (for this and other questions) that the actual number of consequences in the 'grid' is likely to be unbalanced i.e. more negative environmental consequences than positive ones. As with many of the 10 mark data stimulus questions candidates need to provide a range of consequences and should be wary of being side-tracked into case studies e.g. mobile phones in Afghanistan. In some cases some consequences lacked real world understanding such as the health consequences of using mobile phones which in some cases were argued as similar to the health effects of being exposed to radiation from the core of a destroyed nuclear reactor. The best answers referred to a range of examples using Fig 5 as a 'springboard' to develop their explanations. These included reference to the health effects of heavy metals during disposal, the environmental impacts of mining for resources, emissions from manufacturing and transport, the benefits of receiving information on prices or natural hazards by text etc.

5b generated a very wide range of responses. It was pleasing to see that this question attracted more takers than in the past. Many candidates began by defining 'technology'. This is a good idea as the concept of 'technology' is broad. It would have been quite possible to answer this question with reference to only appropriate or intermediate technology and this approach might have helped some candidates focus – in some cases answers did become lists of technology and a narrower focus might have helped assessment .

An important aspect of the question was the balance between quality of life and environment; in some cases candidate used different examples to illustrate the contribution technology makes to quality of life to those they used to illustrate environmental points. Many good answers combined the two. An important aspect in terms of gaining Level 3 or 4 marks was to make some assessment. This could have been achieved by comparing between environmental and quality of life aspects and / or by recognising that some technologies inhabit a grey area and make both positive and negative contributions.

This is part of an answer to question 5a, which gained 10 marks, on the human and environmental consequences of the mobile phone life cycle.

A mobile phone is many factured using many digerant materials + processes for example, a lot or a mobile is made from metals, metals come from one's found underground. To extract these are's cristly, the one must be removed from the ground, this requires a lot of energy, machinery, and man power. By using large amounts or energy for the remard, this reduces possil pulk supplies even purther then where they strendy are putting even more pressure on the environment. Using heavy machinery increases the level of coz emmissions, which causes pollution problems, + can add putter to the or greenhause exect + global warning. The men that are needed to operate this machinery may experience health problems from the possibility of hazardous chemicals being present in the cres extracted # The process or extraction does havever supply jobs, which are in need, so could improve the quality of life + standard of living for some violividuals. Once extracted, the metal are's have to be processed further to remake the metal, this can be done in eactonies, but using highly expensive, energy consuming policitios machinery this process also doesn't need to be as heavily manned; so is not as how beneficial to humans. There is also a lot or waite products weed left over ofter this process. which create's problems as to how to dispose or it, without leaving too much environmental damage



This answer used Figure 5 as a structure, but rather than copying out the text slavishly it did try to add in some of its own ideas, such as details on the impacts on mining resources, fossil fuel use and its consequences, the impact of manufacturing including the positive consequences resulting from jobs making mobile phones.



If a Figure has text on it, it is not sufficient to just reword the text. You must add value to your answer by using your own knowledge and examples. This is part of an answer to question 5b, assessing the contribution technology might make to improving the environment and peoples' quality of life. The whole answer gained 14 marks.

Another project, which at using technology to secreme environments and social problems is the Green will of chine megaphorist proposed by the government.

This project started in 1978 and I expected to an through to 2000, conting around US\$8 willion. It ignores a 4500 km, 3 million tectore planted past well almost a property to the spread of the God secret which itself is indeeding by 3500 km² cody year. It also helps by increasing food secrety as forming would been to be more sustainable, and it is expected to relieve animal from anally paying US\$50 billion for the problems of snop failure, sill enosing and dist shorms. However, there are many fear about whether are not the project will actually worth. The South Month water transfer project, which began in 2000 and is expected to make people's quality of life. It involves diverting 45 william in 3 of mater from the Yagtze River to the Mills in their rivers, for Industrial and approach to use a large of the Yagtze River to the Mills in their rivers, for Industrial and approach to use a large of the Yagtze River to the Mills in their rivers, for Industrial and approach to use a large of the Yagtze River to the Mills in their rivers, for Industrial and approach to use a large of the Yagtze River to the Mills in their rivers, for Industrial and approach the use of the Yagtze River to the Mills in their rivers, for Industrial and approach the use of the Yagtze River to the Mills in their rivers, for Industrial and approach the use of the Yagtze River to the Mills in their rivers, for Industrial and approach the use of the Yagtze River to the Mills in their rivers, for Industrial and approach the use of the Yagtze River to the Mills in their rivers.

Although this may help with issues like pod soonity and help the economy (that impossing the population) and lowers), it could involve the displacement of at locat 250,000 and people and the biodiversity domoge of the Xongtze dismage tends are no destining the population of the seen that pedrology can be used to overcome environmental and social prodeins, thousand, it seems that the greenably seems to be more successful in impossing people's quality of life than the environment, that themore, technology come to be many an intertional implications that seem to affect people as the environment, expectedly wise telling the form of was projects. It should also be colded that other seems along such as Det. There and dome which are seen for examples.



This answer has good detail. The example of the 'Green Wall of China' includes some key facts and figures which adds weight to the answer. There is recognition that this project has laudable aims, but that it may not be a success. The South-North water transfer is also assessed as both positives and negatives are stated – again with some specific details. The candidate includes useful conclusion which provides and overview of the benefits and costs of technology.



At some stage in revision, facts and figures do need to be learnt as detail is an important component of a very good answer.

Section B issues analysis: which way for the Maghreb?

General comments on Section B:

The issues analysis was based on the Bridging the Development Gap topic and specifically the Maghreb region on North Africa. This region, in late 2010 and 2011, became convulsed with what some commentators have referred to as the 'Arab Spring'. Given the contemporary nature of this Specification it is perhaps not surprising that pre-release resources occasionally appear to be 'moved on' by current affairs. In fact, most candidates made useful and often interesting references to current events and only a very small number appear to have been 'side-tracked' by them. It is worth making some general points about pre-release resources which appear to be strongly linked to a current event or events:

- Students should base their pre-exam research squarely within the context of the Resource Booklet they have been given.
- Reference to 'current affairs' is sometimes relevant, if geographical and selective candidates should refer to the source of their information / research.
- As the resources (and questions) are written some time before the examination is sat, centres should be aware that questions cannot refer to very recent events, as the questions would have been written before the events have occurred.
- In an internet age, candidates are very likely to be able to find more up to date data than that which appears in the Resource Booklet. There is no expectation that they will do this, but may if they wish this would be credited as synoptic research.

It was good to see that centres and candidates had used their common sense in relation to the Maghreb and most students were well prepared and focussed on the resources provided.

Synopticity:

Candidates must demonstrate wider geographical linkages in order to access the upper Levels in the mark scheme and especially in top Level (3 or 4). This can be done in a variety of ways:

- Reference to parallel examples e.g. comparing tourism development in Morocco to development in Spain or Turkey.
- Reference to wider geographical themes e.g. global warming as an environmental threat to the Maghreb.
- Conceptual synopticity e.g. the use of the Rostow model as a structure to discuss the development of Morocco.
- Reference to an example or idea from another Unit e.g. the IPCC climate projections from Unit 1, or water stress / scarcity from Water Conflicts in Unit 3.

There is no need for candidates to actually state "this is a synoptic link" or similar. Candidates need to be wary of how they approach synopticity, especially when they only have 70 minutes to complete Section B. Specifically:

- Major parallel case studies (as opposed to smaller examples) do not usually work as candidates do not have time to include these.
- Some synopticity is what might be called 'false' or 'forced' synopticity i.e. the candidate
 refers to a wider link or example but it actually makes little geographical sense e.g.
 comparing tourism development in Morocco to eco-tourism in the Arctic; used carefully
 evenly seemingly unconnected geographical situations can be used to support a case,
 but often the supposed synoptic examples are not used carefully.

Specific Questions: 6a

In common with some previous examination papers question 6a was a relatively straightforward question using the command word outline, which asked candidates to consider the strengths and weaknesses of tourism as a development strategy. Many candidates produced a good quality Level 3 answer which made good use of the resources provided.

Good answers sometimes began with a definition of development and / or tourism – a useful way to focus the start of the answer. Although not stated in the question, many used a social / economic / environmental strengths and weaknesses structure – which often worked well. Obviously there may be – for instance – no obvious environmental advantages in which case students would be well advised not to try and invent one.

Most answers were relatively well balanced and considered a wide range of issues, with better answers often providing a summary /conclusion which made a judgment about the likely overall benefits or costs of the development strategy. Synopticity was often seen in Q6a with reference being made to other developing world locations which have also gone down the tourism route such as Kenya, the Seychelles or the Gambia. There was also reference made to the recent bombing in Marrakesh in the context of wider security fears which could potentially de-rail tourism. Some candidates had clearly researched the Vision 2020 plan and made useful references to this.

This is an example of an introduction to an answer to Question 6a. The whole answer gained 12 marks (top of Level 3).

Development is the improvement in quality of life, in terms of economic, ecolar and political well-being. Tourism is a way in developing the Mahgreb in order to increase it is HDI (human development Index) which focuse on educational altainment, life expectancy, GDP per income or PPP (purchaing power pails), Tourism in the Mahgreb brings strengths and weaknesses to the region.

Tourism in the Mahgreb would bring strengths such as the economic product. The development of Plan Aan figure Ea, is a major development investment with the region. The social coordal resort is expedied to create 8,000 jobs similarly to the flagship projects in cornwall where the Eden project is creating the multiplier effect in the local economy clue to taking in 50,000 visitors implementing destination tourism. The

Plan Usen will develop the multiplier effect throughout Marracco economy which could then spread and develop into the virtuous cycle. The Maghielis strategic location is in close proximity was immary with the EU, therefore the influence of tourism may make secondary in the area could affract FDI multiplier without cycle proximity of their higher cycle proximity. Here is local was secondary foreign direct investment) from the including economy better strips

EU's TNC's spreading wealth Morroco better strips

has already signed an open sky agreement with the EU in 2006 encouraging cheap flights eg easy jet This allows Africa to become



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The answer begins with a definition of development, a useful way to start. There is then a clear focus on the strengths of tourism, which makes good use of the data in the resource booklet. The inclusion of the virtuous cycle, in diagram form, is an example of conceptual synopticity. There is good use of terminology such as 'FDI', 'destination tourism' and 'multiplier effect'.



Diagrams, such as the one shown here, can be effective if they are simple and make a clear point.

Specific Questions: 6b

This question proved challenging to many candidates, although many good answers were seen. Ideally, a range of environmental problems needed to be outlined such as desertification, water issues, degradation of ecosystems and climate change. A large number of candidates made reference to their knowledge of global warming from Unit 1.

Most could relate some or all of these environmental changes to economic development. Many argued that farming would become less viable in the region, especially where it is an important part of the economy (Morocco, Tunisia, Mauritania) and this could lead to issues of food insecurity and a need to import more food and / or spend more money on irrigation and ensuring an adequate water supply. The cost of desalinisation was referred to – often with reference to the experience in Algeria. Many argued that the costs of supplying water would mean less money available for health and education – a minority linked synoptically to the Millennium Development Goals here.

In order to access Level 3 of the mark scheme the *extent* of the problems needed to be considered. Some achieved this by arguing that in the oil wealthy countries of Libya and Algeria the receipts from oil sales would ensure that the problems could be overcome, whereas in Morocco environmental change could damage tourism and leave the country poorer and not in a financial position to overcome the issues by applying technology to find a solution.

Most candidates had a weaker link to ecological wellbeing, although some recognised that the goods and services provided by ecosystems would be degraded and that this would eventually lead to lower human wellbeing.

This is the beginning on an answer to Question 6b. the whole answer gained maximum marks.

b) comme development and the acological wellbeing of the magnets and it can be seen as preserving its development die to the fragility of its econymon streety

Enumental charge is largely Threatening the Myhreb's exonomic and exological wellbeing, for example the lack of water Comment xarcity) is loading to an invessed rulner buty to desertification. It is this desetification which is having on advene affect on The region's agriculture including fabilly to had for the assel economy as 45'l. of Monorcous and 12! of Mountainers work wither this industry, which is determing investors from The and landscape due to The ning Threats to the terresmal ecoregions. In fact, economic grant and about ration is excase making the converted change, as was les case in China with vising levels of describeration and 70%. of over being polluted due to industrie grown. The wide oneromental change, has made the climbe more extreme with an about combat temperate of 25°C in Agadin, Change a Long chy sesson - mas July and Anguist which mivessed The Threat from drought and descripintion. In Algeria this has decreased the around growth by 2/ according to trans Ghile on is a factor in the increased hothlity and a lack of cooperation between no regional players es they battle for

Results lus Examiner Comments

This candidate used key words from the question in their opening statement, and usefully recognises that the ecosystems in the region are fragile. The issue of desertification is linked to agriculture (economic development) and there is also a parallel example used (China).



Make sure data from the resource booklet is used directly and remember to include brief synoptic links.

This is an example of the end of an answer to question 6b. The whole answer gained 10 marks.

Howard the prospects of environmental change Can be one come monogen mustacent in toparties walken longe Sall water management projects. Liberar great non mad now dough crake from the south to the Salmi Castal region, essen however

however this too in a paleo agrifer and as such is investment, firtherwar It is a very expensive papel and so alla be a hard hard hard has examine development. Similarly Algeria has everting for amounts of money in after they Algeria has aneath of money in after they have and in I likely slow development.

It was forthy however and will likely slow development.

It In Conclusion environmental change as a consignance of human activity your meature electron development and environmental wall being greatly. However their challeges of this environmental change can be one but not without and conficultion of it's am. Perhaps technological accorder with field that greater in delatination for example will help the Malagels across the free freet.



This candidate recognises that environmental change, whilst a threat, can be overcome by using technology and provides two examples of this. There is a clear overall conclusion, which uses evaluative language.



Certain words and phrases, such as however, whereas, on the other hand, but, etc make up the 'language of assessment and evaluation' and should be used if the command word is assess, evaluate or discuss

Specific Questions: 6c

The signpost at the very start of the resource booklet was picked up by many candidates but by no means all. Although this question could have been answered with respect to the three directions indicated it was very possible to argue for an entirely different set of directions such as education to improve women's participation in the economy, or regional development or tourism. A minority of candidates did argue for tourism but often this was a more generalised version of Q6a without reference to specific countries other than Morocco.

Some good synoptic examples were seen in this section, such as the Desertec proposal for North Africa to provide solar energy to Europe. Many answers made useful reference to recent events in the region.

The signpost was used as a structure by many candidates who wrote cogent arguments outlining the costs and benefits of the Maghreb moving in the direction of either Europe, Africa or the Middle East. The costs and benefits were generally understood well in both political and economic terms. As the command word was 'evaluate' it was useful to provide a summary judgment as to the 'best' or 'worst' direction and many candidates did this. As in the past, many very good answers recognised the key differences between countries in the region and argued that while they might all lean in the same direction, their different economic structures meant they needed different development directions.

This example is the last section of an answer to question 6c, on the possible directions the Maghreb might take in terms of future development. The whole answer gained a Level 4 mark of 13.

Wilst thes could be beneficial as Algeria and Libya will review huge sums of money as the price of oil continues to rise and Horocco and Turisia should benefit from a townest trade which reverses in Size every year, it is important to remember that to avoid economic disaster, countries need to diversity their economies with It for a fall in oil price or an unforseen event means that the country is in a poor position to deal with it hillewise, tunisis is just as valuerable to sump in the townest trade which it relies on In conclusion I believe the best

political and economic decisions that all Maghrels countries can make is to make a travition to democracy and a decision to diversify their economics. This is because diverse economics to the same able to be all better with supersent as investors feel their money and towns are more likely to visit a stable democratic country than an unatable.



This answer recognises that countries within the region might benefit from taking different routes to develop, while also recognising that more general economic diversification would make the region more able to cope with future change.



Usually, the Section B resources are based in a region, which contains several different countries. It is important to understand both the similarities between countries that contribute to the region's unity as a whole, as well as the differences between countries.

Summary:

Overall performance on this examination paper was similar to previous series. Some very good answers were seen across all questions demonstrating up to date knowledge of the contested planet. The most successful candidates, which future candidates might aspire to, tend to have the following characteristics in terms of exam skills:

- Good time management between Sections A and B, and within Section A questions.
- Repeated reference to the Figures in Section A, to tie their explanations to the data / information provided.
- Natural use of examples, data and facts to support points which gives answers a certain 'weight'.
- In the 15 mark Section A questions, use of examples and selective use of information from case studies rather than 'the case study' approach.
- A summary paragraph, which comes to a 'view' for any question which uses the command assess or evaluate.
- Some lateral thinking, which turns a question around and sees a different perspective

 a good example would be in Q5b where some candidates argued that in some cases technology does not contribute to quality of life at all.
- Frequent, but normally quiet brief, synoptic links in Section B.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link: http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx

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