



Examiners' Report June 2016

GCE Geography 3 6GE03 01

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Introduction

This year's Unit 3 examination was similar in style to previous years. Candidates chose all of the Section A questions in reasonable numbers, with the rough percentage popularity shown below:

Question 1: Energy Security = 33 %

Question 2: Water Conflicts = 25%

Question 3: Biodiversity under Threat = 15%

Question 4: Bridging the Development Gap = 15%

Question 5: The Technological Fix? = 12%

Bridging the Development Gap and The Technological Fix? were a little more popular than in previous years, with slightly fewer candidates opting for the Water Conflicts question. Overall, the vast majority of candidates perform well on this examination paper. As in the past, timing issues were relatively uncommon. Most candidates produced full answers and there were many excellent responses.

SECTION A

Specific comments on Section A

As is always the case, there were some very high quality answers in Section A and the average quality of response was good. Many answers demonstrated a good command of physical, human and political geography and many candidates used contemporary events and changes to support their work, as well as well-known examples and case studies. There are some areas centres may wish to focus on when preparing for future assessments:

- In 10 mark data stimulus questions there is still a tendency to describe data rather than provide explanations; when explanations are provided there needs to be a range of these rather than a narrow focus on one aspect.
- There is still a tendency to rely too much on descriptive case study detail, rather than selection and application especially in the Water Conflicts question where some case studies are ill-chosen and weakly applied.
- Most questions in the 14-16 mark range require a supported judgement to be made; many candidates are happy to sit on the fence and 'fudge' a conclusion whereas the strongest answers have the confidence to stand by their case.
- Level 3 and Level 4 marks in the 15 mark questions are only accessible if candidates can show that they are assessing, examining or evaluating (depending on the command word). Failure to do this, i.e. by only describing and explaining, limits marks to a maximum of 8 in most cases. The development of evaluation skills and evaluative writing style is thus crucial to candidates aiming for a high grade.

Question 1: Energy Security

Question 1 (a)

This question asked candidates to study a table of data showing attitudes to four non-fossil fuel energy sources. Most candidates showed a good understanding of the data. One of the keys to a successful answer was to avoid getting bogged down in an attempt to explain each cell of data (potentially 12 cells) but rather to ensure coverage of all four energy sources and three attitudes by being selective. There was some evidence from stronger answers of data analysis, such as explaining a particular percentage agreement, but then moving on to explain why the percentage disagreement was likely to be quite high. Weaker answers tended to focus on the data for nuclear power and became side-tracked into long descriptions of nuclear accidents without recognising some positive aspects of nuclear power. Similarly, there is a tendency to over-state the impact of wind turbines on 'birds and bats' and understate its intermittent nature. Not all advantages and disadvantages of wind power are equally significant in terms of their impact on energy security. Biofuels were generally better understood than in the past with many candidates recognising their flexibility as a potential transport fuel but also acknowledging that they had ecological and food supply impacts. Occasionally, stronger candidates argued that lack of public understanding of biofuels may have affected the results shown. Overall, this question was answered successfully by many candidates.

This is a Level 3 answer to Question 1 (a).

Put a cross in the box indicating the first question you have chosen to answer ⊠. If you change your mind, put a line through the box ₩ and then put a cross in another box ⋈. You will be asked to indicate your second question choice on page 11.

Chosen guestion number:	Question 1	500	Question 2	1
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Question 3 ☑ Question 4 ☑

Question 5

a)550/0 of souds consider had reducine arms to be a silvable
a)55% of poople consider hydroelectric permer to be a reliable
same of energy. Their altitude may be affected by
knowledge of large hydroelectric dams and power plants
such as the Three Congres Dam in China, Hydroclashic
pure is generally considered to be enrichmentally frestly
so it is a renountle source of energy and does not directly
result is the enissin of greenhaus gover, therefore
it does not contribute to global accoming. However only
73%- conside hydroelectric pour to be totally environment.
ally specially because large dawns can result is
subsidence and damage fit shots as see in the
Cast Chrisa Ses due to the Three Gorge Barry Many
people also conside HEP to be a long term solution
to filme energy demands. This is itself to be become
it is a remable some which will direstly the
energy mix of countries and veduce dangerous
relience on inport for of fossil push from unlable
area such as Runia and the Middle East. Despite
this 36% do not your that HCP is submitte,
possible due to the displacement of people chouted

by the construction of dams, for example 1. 2 million mere duplaced for the 3-6 orges Dam and 80,000 Ruds are expected to be displaced by Tudes's CAP Nuclear power is vegerated as equally reliable to HEP at SSO/o, as people inducted that it is every Lease and is recordable with fuel reprocessing. However Gry 22 % believe Nuclear perse is enumerally freith This is largely become of the potential for Nucleur disenses such as Chamabyl 1986 and Fulnahima 7011 People for muchous power's plantil to Cal padiation will the atmosphere and so it is not considered emmonimentally friends. It is not considered to be a sistemation fully option by many - on 5 41%. The is again due to sufety vives but also the costs and the long him it tules to build and make plante sufe. For example france unell relie on nucleu for 75% of it energy but ims to reduce 45 % S6% by 7050. Wind pare is considered the most enumerically freight and restained with agreement of 81% and 68% respectively. This is because mind but ines are becoming increasings efficient and do not emit greenhous govern They are more compeliture against posil hal

and are Hance the are some ningry issues associated with voice of hobines and ham to lendrages and birds. However wind is considered to be quite unpliable. This is proporty because people other see large butines which are stationary This bocons My require &-25mpl winds. Many vision und game as an intermittent energy somme therefore unreliable However oflers may regard off-share usual as more reliable as higher minds peeds greate more electricit. Brophels and we to local trusted by people with only 42% agreeing on their reliability. This may be because much more research into the we of bio-fiels & generale alternation to power can is needed. Also bio-fuel are not computable with engines which would need to be converted In tems of environmental sushnovilly my 44°/0 believe bis puel ar because of the definedation that occurs to class local to grow the cheps on is seen we in Indonesia where definedulisin for biokel production results in throat to the Orangulun and Black & Chino, Only 45% consider bishels a long term solution became many are set in their mans with braditional petrol and dienel and my fear in reces is prices wented menute from biopuels

enmonnerally profil and aceptate pute energy some choice due to their popular choice due to their popular choice



This answer scored full marks. It covers all four energy sources and the three different views. It is well supported by examples (such as biofuel plantations in Indonesia) so the explanations provided have additional depth. The answer is very focussed on the differences between the results for the four energy sources.



When working on a figure like Figure 1, you need to try and comment on most of it, but don't waste time slavishly commenting on every cell of data in the table.

Question 1 (b)

This question focussed on developing fossil fuels in technically difficult and environmentally sensitive areas. A small number of answers focussed more generally on fossil fuels and used examples of conventional oil, coal and gas rather than unconventional sources and technically challenging environments.

A general weakness was to lump together 'technically difficult and environmentally sensitive'. Stronger answers often began by defining these two terms and then applying different examples to each. Deep sea oil was often used as an example of a technically difficult source, as were the Canadian tar sands. The Arctic was widely used as a sensitive environment. Better answers recognised that oil exploitation already takes place at Prudhoe Bay as well as being proposed in the ANWR area. A standard answer was to describe the impacts, in environmental and economic terms, of oil exploitation in the Arctic and Athabasca. Often this led to an overly descriptive answer that focussed more on the negative environmental impacts than the economic impacts. Many candidates needed to be much more selective in their approach and identify the relevant costs and benefits rather than list every cost and benefit. Often the economic issues with exploitation i.e. that it is viable at a relatively high oil price were over-looked or misunderstood. Answers that considered deep water oil such as the West of Shetland as well as the North American examples often had a greater range of evidence to draw on and therefore offered a more convincing conclusion.

This is a Level 4 answer to Question 1 (b).

b) Environmentally Sensitive areas ## are ecosystems that are delicate, and may be damaged severely should fossil free be extracted. Technically difficult sources of fossil frees include # far sands and deep sea oil reserves, which are costry to extract. However, the economic benefits gained from selling ## fostil heels and suppuring internal demand could be seen as outweighing the &# environmental and economic Costs of extracting fostil frees.

Ensity is could be argued must exploiting fostil fuell in environmentally sensitive areas carries a great ecological cost. This is because the threat Of an oil spill direster is great putting many vart and endangered species at risk A key example of this was the food valded oil spill on Prince William Sound in Alaska, 1980. Its a result of 11 millian barrels of oil being spill, local wildlife was decimated killing 40000 sea bird, and over 400 seas. The spill travelled 1000 miles down the coast, and was up to 6 feet hap the Mellin in some places. Therefore it could be seen as that me costs of explaining fossil fuels in environmentally sensitive areas are greater than the benefit, as any oil spill her the potential to wreak entire ecosystem.

Additionally, it could also be argued that his cours of exploiting technically difficult fossil hel reserves outweigh the benefit.

This is because excracing on from tax sands is an incredibly energy intensive process, and for every barrel or oil produced, three barrels of water must be wild up this, extracting oil from deep sea reserves requires the getty expensive specialist equipment, and also has the potential for awing revere emironmental damage, such as in the case of the BP Deep water thorizon oil spill. Therefore it could be seen that the costs of exploiting technically difficult fossil frues reserves our weign the benefit. This is because the yorknood for emironmental damage is large, the process is economically costly, and a huge carbon footprine is created by the we of huge amounts of energy.

Havever, it could also be argued that the benetits of exploiting fossil fueld in emironnentally sensitive area outnight the costs. This is because, as seppered are running low, companies are looking at different sources available. This waster result in huge economic benefits, as the companies could continue supplying their customers, and make greater profits due to falling supplied. This can be seen in Alaska's Prudhoe Bay, which previously supplied most of America's oil, and reached its peak output in the 1980s. Attendor are turning to the Archic Narional Wild life Reserve (ANUR) to replace this supply being lost. This would have emiron-

mental costs to the area, which is a migrapay site for carbon, but would have greater e conduct kenothits.

Therefore it could be seen that the benefits outweigh the costs as much profit could be made, and can comme to supply the vising demand.

In carclusian it can be seen that the costs of exploining
Tossil their in technically difficult and environmentally
consider areas are more important Man Me benefits.

The is because clespite helping to supply demand and
add to expression profits. The 11th of damage to ecosysteme
is too great. Also, to some extent, the large carbon
fromprine caused by energy mensive processes outwight the benefits



This is a good quality answer. It is evaluative and considers a range of different costs and benefits and the examples used are relevant and include some specific details. It sees more than one side of the argument, although it needs to focus more on economic costs and benefits to achieve full marks.



Phrases like 'technically difficult and environmentally sensitive' need to be broken down into their component parts, not treated as one phrase. Although some fossil unconventional fuel sources are both technically difficult and environmentally sensitive, not all are.

Question 2: Water Conflicts

Question 2 (a)

This was popular but proved challenging for some candidates. Figure 2 showed water costs in seven cities which vary a great deal. The highest cost was in Copenhagen. While no knowledge of Denmark was assumed by either the question or mark scheme it was disappointing to see occasional reference to Denmark as suffering from 'physical water scarcity' based on it being 'far from the equator'. Stronger answers were able to offer more realistic reasons such as high costs as a result of privatisation, ability to pay, and deliberately high costs being used as a way to reduce demand. There was usually some understanding that water costs from street vendors would be high as a result of middlemen taking a 'cut' and it was legitimate to argue that in Lagos and Nairobi physical factors i.e. climate could play a role. Subsidies and the need to make sure vast urban populations had some supply were often cited as the cause of water costs in Mumbai and Shanghai.

While many candidates did cover both cause and consequence this was often almost by accident. Many answers had more causes and came by some consequences such as disease and poor human wellbeing almost in passing. Causes were sometimes stated in very simple terms and explanations could have been developed further. Relatively rare were answers that argued that very low costs such as in Las Vegas could lead to wasteful and unsustainable consumption or that high costs could actually reduce demand and conserve scarce water resources in areas with growing populations. There were many good answers but there were also many which would have benefitted from a better understanding of 'cause' and 'consequence'.

a) Figure 2 shows that the highest water costs are in Copenhagen at US\$970 per cubic metre. This is well-ahead of the second highest, Nairobi at US\$4.00 per m³. Mumbai is at the lowest at US\$0.01 per m³.

Copenhagens water costs may be so high because of water metres. If the water is piped into the house las Inoun by hourer) it is welly to be metred and for a developed country, they may like to see demand fall. This strategy worked in Singapore as they reduced reliance on a Malaysian pipeline by 50%. If costs are high, demand is welly to reduce. However, If the water price is also high in somewhere we Nairobi, the population may not be able to afford water so conflict could arise we it did in the water privatisation of Bolivia. Prices are welly to be at the top end in Kenya and Migeria because of economic water scencify. If the water is held in a seller, it could as easily escape, making what there is expensive.

The countries that remain of the graph & (London, Shanghi, las Vegas and Mumbai) are megacities.

Drinking water may therefore have low costs due to the sheer amount of people that require water.

However, this would have a negative consequence.

Demand is increasing and it is largely due to be megacities. Cheap water won't encourage any from of attitudined fix for the population. This is especially the case in Las Vegas where they extract 90% of water from the Colorado trans-boundary over. The Upper Basin is falling short by 10% yet Las Vegas' consumption is still at alaming rates. Low priced water can also mean poor quality and that could definitely be the case in amount Mumbai where there are slums derived from high A hural-urban migration. This could also be the case in Shangheir as 59.4% of Chinas groundwester is rated poor quality.

To conclude there are many causes and differing consequences for variable watter costs.



This is a typical answer to Question 2(a). Whilst it attempts to explain the causes of the differences in water cost, it has less to say about consequences. The causes covered such as conservation attempts, privatisation and economic water scarcity need to be explained a little more carefully and consequences need to be addressed.



Look out for questions which have more than one key word such as 'causes and consequences' or 'economic and social' or 'local and global'. Your answer needs to cover both in a balanced way.

Question 2 (b)

This question focussed on future water demand. A problem encountered in the past has been a weak understanding of the difference between demand and supply and this was encountered again. The sense of the question was that demand is rising, and how can this be met? The answer can involve increasing supply but it can also involve making existing supply go further through water conservation. In addition the question asked how far sustainable strategies could help meet demand. Far too many answers took the 'it's sustainable' approach and simply claimed all of their described examples were sustainable without providing any definition of sustainability or criteria by which to judge this.

A long-term issue with this question has been the unselective use of case studies and this appeared again. It is very hard to argue that the restoration of the Aral Sea will help meet future water demand. Many candidates, as in the past, turned the question into one about water conflicts and rolled out their familiar case studies. Resolution of conflict over water supplies is one possible solution but not the only solution and to argue that it is, leads to a narrow perspective on a complex issue. All of the impacts of the Three Gorges Dam were not relevant to an answer to this question.

Nevertheless there were many good answers. These tended to:

- Define and make reference to sustainability in terms of water supply.
- Contrast water conservation measures with schemes to increase supply.
- Recognise that possible approaches in one place would not work everywhere.

There was often a good understanding that desalination was not on the face of it a sustainable option, but it was argued by some that it was the only option and that for some places at least it could be seen as economically and socially sustainable. Many recognised the importance of water conservation but also argued that the scale of future demand means that alone this will not be enough to provide water for everyone. The least successful answers tended to focus on two or three megaprojects such as the Aral Sea, Three Gorges Dam and South-North Transfer and simply described their impacts. The best answers were more wide-ranging in scope and much more selective in terms of the evidence they used.

This is a Level 4 answer to Question 2 (b).

6.) Sustainable strategies robe to those which do not harm the
environment or lowe tasting damage. They are more long lasting
than hard ongueoning projects but tend to be more small scale,
so are available to fewer people.
Firstly, water recyclop and replanishment is arguably the best
sustainable water strategy. This is because it mets demand,
yet does not character apply Lubich is insustainable). This can be
seen from the Dan Region Wate Treatment Plant in Israel which
recycles 12000 m³ g water each day to use as domestic water. This

is important because Krael qualifies as one of the 33 most water inscribe combies & By using recycled water, this strakegy is sustainable because it does not require new sources of supplies to be built, such as dams and reservoirs, and therefore is also cheaper. Furthermore, TWCs have recognised the importance of recycling water as now Coca-Cora report that 75% of water used in their finished products is recyclable. Other TNCs such as Nestlé are beginning to follow suit by uniesbag in LEDCs, such as Gazas hip which are seriously water scare, to create water reguling plants for their awn products but also for the local population. This is important as currently, 90% of water in Gaza is infill for human consumption. This strategy can also be used on a large global scale and is sustainable through mooting apply by not increasing the supply.

Additionally, pag harves aring in IEDCs has also proved siccus for board populations. This is because it provides an immediate some ef water, at avery low cost in Namibia, tog harvesting involves putting up with medical in remote areas, and through solar radiation, water collects on the mash and claps down into buckets. This has proved successful in Namibia as there are now over 1000 tog harvesting mushes that provide an immediate water source for local communities and 600 ullages in Namibia. This is a sustainable, but local strategy to retire most water demand because it is using rerewable technologies on abottom if scale in order to increase water to areas that need it most thowever, as this is a bottom if strategy, it only works on a local scale and close not apply water to mass population

Desalurisation plants are also an environmentally sistainable strategy to meeting water demand. This origines the process of convering sea water to potable water by removing excess salt. It has proved accessed in many cleveloping canthoo, especially Saudi Arabia and United Arab Gruiater These schones are unportant because the middle East is home to S% of the world's population, but only 1% of its preshwater apply. Also, Saudi Arabia velles on water pom 3 the aguses and the Purer Jordan, and the Jordan is expeded to decline Solo by 2100. This is sistainable environmentally, as it is islatly a renowable and notival resorre. The oceans, which make up 70% of the earth's supace. This is evident as Dubau in the UAE, gets 98% of its demostic water spply from desalines of on. However, it can be argued that this scheme is not economically sustainable for the plure as it is a very costly process, with 1/2 of production costs on energy. Furthermore, the desalinisation plant in Yuma, Anzona cost \$10 million in 1992 so it is unulely that LEDGs will develop this scheme. Although it is a sustainable strategy from MEDCS

Finially, Small: Scale projects such as dry landscaping and turned husisides are suffacionable strategies to meet water demand in the piture as they tocus on reducing demand mether than propering in section involves in areas ung septly. Dry landscaping interferes in Anzona involves converting towns gardens among from grass and focus on crop farming rather than pasture and anable cultivation. This is important because converting, 80% of water extracted from the

Colorado Ruier in USA is used for agriculture, and agriculture

Totales takes up 169% of the world's freshwater supply: this is

more sustainable on a local scale as it is chosen yet effective

and will continue to neet demands in the proper suffermine,

from ica has unwested in ferbigation, which involves combining

water is used:

Hawver, shore insustainable strategies such as dam building had to next water demand more quickly. This is de widont from the Three Gorges Dam in China, which although cost \$37.

builtion to build, it provides immediate water to "3 of China's population, roughly 400 million people. Whilst this has had some unsustain able impacts, such as threatening beal biodiversity, such as the Yangtie River posphin, now a "living dead species," it also mans the cost of wall for consiners is cheaper and thoughow could be argued to be consmically systemiable in the large term, especially as The Three Gorges week our point is expected to be in 2022

In conclusion, sustainable stategies to meet water

demand in the three tend to be more Localised, they can

noot this demand it local areas, and on a lover economic

scale: Water replenishment/reageling is the best for this,

as it is chap and is environmentally and economically

sustainable lay not harming the environment.

ruha than viceasing spply.



This answer begins by defining sustainability. This is important as this sets up criteria by which to judge different ways of meeting future water demand. A range of different and contrasting ways of meeting demand are discussed with some specific detail and the whole answer is evaluative. There is a clear judgement in the conclusion at the end that addresses the 'to what extent' element of the question. The whole answer is well structured.



The 15 mark Water Conflicts question does not always have 'conflict' as its main subject. This means that case studies illustrating conflict over supply are not always relevant.

Question 3: Biodiversity under Threat

Question 3 (a)

This was answered by a good number of candidates. In general Figure 3 was understood reasonably well with a number of responses recognising that it was effectively a version of the environmental Kuznets curve. An issue was that some answers failed to explain the majority of the curve. On closer inspection the curve has three parts to it: countries with high forest cover and low rates of deforestation e.g. the DRC; countries with higher incomes but less forest cover and rapid deforestation; countries which are afforesting. Many answers failed to address all three of these basic contrasts. There was most certainty about the NIC countries in the middle of Figure 3. Most answers could suggest reasons for the low forest cover and high rates of deforestation based on industrialising and urbanising NICs putting pressure of forests in terms of resource and land demand. Some good examples were used to support these arguments such as the development of palm oil plantations in Indonesia and agricultural land demand in Brazil. The position of the DRC was less well understood. Candidates needed to recognise its very low income and high forest cover to recognise that lack of development of forests would explain the relatively low deforestation rate. Some answers argued that deforestation was happening rapidly in the DRC, driven by attempts to develop, despite the data not supporting this view. Ecotourism was often suggested as an explanation for Costa Rica's position plus the idea that at higher incomes concern for the environment grows. Some very good answers differentiated between the NICs, for instance arguing that in Brazil concern for forests is growing as are areas of conservation - in contrast to Indonesia. Many answers offered fairly weak explanations for India with only a few arguing the quality of afforested areas could be low in terms of biodiversity, or linking to possible Indian concerns to be perceived as 'greener' due to its increasing international profile.

Question 3 (b)

Questions that focus on 'players' have appeared in the past within Unit 3. The key issue with this type of question is the extent to which candidates are prepared to provide specific examples or fall-back on generality such as 'local people' and governments'. There was also some confusion over place versus player. This is a recurring theme. In the past questions that have asked about 'conservation strategies' have often been answered simply by describing conservation in named places. This year, many answers described conservation in places such as Daintree but players and their role were mentioned only in passing if at all. The players that received the most specific coverage in terms of their role were often celebrities such as David Attenborough and international NGOs such as WWF. In these cases their role was often explained and sometimes evaluated. CITES and Ramsar, plus World Heritage Sites were often considered although in many cases the 'player' i.e. the UN / UNESCO for instance was not really identified so the focus was on the strategy. There was sometimes a drift into areas that were not well-focussed on biodiversity conservation such as the Kyoto Protocol. In many cases the 'government' and 'local council' were not named so answers tended to be rather generic. Some answers did focus on a range of named players and often contrasted local, hands-on conservation by NGOs with broader national or global players and their actions. These answers sometimes argued that both sets of players are important as they complement each other. Other commonly seen evaluations included the idea that local people were crucial as failure to get them 'on-board' often meant conservation efforts were unsuccessful.

b) Perhaps most lignificantly, the very player of local national pass can be seen to have me most effect regarding the conservation of biodiversity, as they have me co-operation of a multitude of playes to effectively pereive ar diminishing biodiverity. This can be seen locally Inough me 'Top poun' player of The Laue DISM'ct, which preserves pearbogs are wetlands and other lake wear in order to sustain endemic species such as local pike. The Lake pistrict have worked effectively with other very prayes such as me 'nsps' and 'Nahval England' in order to maintain wetlands for birds, ie me Nomen pygmy out, and remove invasive species meats, i'es me Japanese unormeed which meatened to infilhate peathogs. This protected region of the Lake pushict demonstrates how conservation oras con be extremely effective, especially on a local scale as it allows co-operation and undestruding of the importance of preserving endence species, and is perhaps me most effective formed Conservation large biosphere from shows he effectiveness of protected areas, again combining local efforts and government through VNESCO, in cameron, Africa, and how protected areas locally of so Alternatively, global very playes such as The Convention an Biological Pishbution and CCBD) show now Top Dawn' Ney players se not greatly effective at Conserving biodivesity prougn little initiative and lack of motive. The CBD Cartains 150 governments who predged to internationally, educe the meat to brodiverity through

reducing the amount of 'endangered' species and so from Yet, with a cris nas actually been taken, and whilst he CBD primised to have Offectively improved biological conservation by 2010, figures have become wase as for example, China's Yellow piver has been regarded as 'ecologically dead'. In many ways he CBD is too ideological, and this is seen in the Surtainable Development Gods, charmer intenation key player mat is not only failing to preserve biodiverity but has already done so Mough the faire of the Millenin Development Coods. These comparations have become too i'deological, and while have good intentions, lacu care movern he priorly of economic development. This exemplifies how having ello nomically prosperous ney playes is not always effective, and it is only in rave cases such as Naway's 'Svalbard' seed bonk, that brookvesty from intenation Mey playes is taken seriously and done so sustainably

Finally, he efforts for biodivesity conservation from celebities and more with power can be seen as incredible effective at inspiring and enforcing better conservation of our word's biodivesity. For example, Leonardo Dicapro has recently been at he firefront of biological projection campaigns, even using his oscar speech in 2016 to show he need to project as word's finite resurres. The individual is also able to educate the futre population with

Sicial media, publicly showing the need to save I consispecies e.g. the endangued snow reopad, and neystone species, such as bees. Other New playes include Emma Thompson, who in 2015 protested against stell disting in the Archic hireatening the Archic Nutrino Wildlife refuge's biodivesity of he do of Conbu, reaching up to 17,000, and the fragile denning of polar head when giving bim; withing with 'greenplace' to seeme biodivesity. Baracu obama also has predged to potect a furner to million hectores of the ANUNR, and it is the gravitas of these new playes varieth moves them, perhaps the most influencial.

To Conclude it is the Mat whilst international well player are important, heir goals lock the reality of local pass such as the Lake District and peace District in I'V VM. National pass granally woulso well as efforts are concentrated in no area locally whilst celebrity they players perhaps pave the Ruhe for brookwaity construction.



This is a well supported answer that considers a range of different players which are grounded within examples. It is evaluative, arguing that some players are more effective in conservation than others. There are some areas that are less relevant, such as reference to the MDG, but overall it is clearly written, supported and the final conclusion makes a clear judgement.



When answering the 15 mark essay questions, a range of small examples usually produces a more thorough and evaluative answer than one which relies on one or two major case studies.

Question 4: Bridging the Development Gap

Question 4 (a)

This question presented candidates with a figure containing development indicator data for 3 countries across 4 different indicators. In many ways this proved a problematic question for some. The focus was on the value of the indicators as measures of level of development. Many answers focussed on what level of development the data indicated. This is not the same thing. These answers usually compared the development level of the three countries in a very descriptive way with no or very little focus on 'value'. In order to unlock the meaning of the guestion candidates did need to have some conceptual understanding that development is not purely economic in nature. Those that had this usually answered the question as intended. They often initially focussed on GDP as an economic measure and commented on its narrow, but universally understood, nature. Strong answers suggested alternatives such as PPP GDP or GNI. Some recognised that this valuable 'headline' indicator has nothing to say about income distribution therefore reducing its value.

It is worth noting that there is often a misunderstanding about the nature of percentage data. This was frequently seen with reference to education spending with some candidates arguing that Rwanda's data was unrepresentative because the Philippines would spend more on education because it is wealthier than Rwanda. This misunderstands the value of percentage data, as the absolute education spending for both countries is essentially meaningless as a comparator. Some good points were made about electricity consumption in terms of the data not revealing rural / urban divides or that some countries might not require as much electricity consumption as others due to economic sectors or even efforts at energy conservation. The value of data on gender equality was generally well understood. The strongest answers recognised that they had been provided with some social and economic data, but that some environmental or political data would be needed to complete the picture – or the use of an index such as HDI.

This is an example of a Level 2 answer to Question 4 (a).

Chosen question number:	Question 1	\times	Question 2	×	
	Question 3	×	Question 4		
	Question 5	×			
(a) Development	indicato		are measuremen	ıks	thaklan
be used in	orde	to	examine tu p	Olin	cal,
economic, chvica	omental	OH.	nd social develop	2m	int of a
country Develop	mat 15	tr	u advancing of	·······	1 country
over time.					***************************************
An economic	measure	c m	nt of develope	nen	t is GPP.
it is measure	ed in	clal	lars and sno	يري	
cconomic Statu	J al o	IC	suntry (the high	14	the better).
Mexico have a	COP	0f	10,307 me (nd	cat	ing that
they are deve	loping	out	a faster rate	tha	n Ewanda

and the philippines CIDP can be a good measure of development as it is simplistic and measures economy, it also demonstrates the rise of the MINITS HOWEVER, a propiem with se COP as a development indicator is it only take into account economic development and not the other factors of development, such as social + christon mental factors. The proportion of total GOP spend opent on education may be a better development indicator. Although Mexico have the highest GDP, Rwanda are only 0.1% behind them with Education spending. This suggests that Rwanda are spending their income more efficiently than Mcyco. Improved education can lead to development as people get butter jobs in terrhacy or quaternacy Industrial instead of morning in the pamacy industry. This boys in matter income which will in return improve the countries overall GDP. This indicator allows us to look at not only economic but also socia) development Electricity consumption could be a valuable measurement Of the stage of alwelop ment that a country is at If a country consumer more electricity, it is possible marthy are using this for infrastructure and/or industrial purposes For example as the BRICS+MINTS divelop they consume more electricity than other Countries. We can support this as Mexico consume

2,092 hwhors perperson ply However, this could also indicate that environmental development is decreating.

All more forsel hull are being extracted in order to produce energy.

In order to effectively measure development a complication of a range of economic indicators. Should be add to take into account all development factors.



This answer is good, but there are a number of issues that prevent it achieving a Level 3 mark. It only covers three of the four indicators shown on Figure 4. While it shows a good understanding of development and does focus on the 'value' of GDP as a measure of development, it gradually drifts away from this focus and later indicators are covered in a much more brief way.



It is very important to build in some 'thinking time' to allow yourself the chance to roll the question around in your head and think about the meaning of all the key words and command words, before you start your answer.

Question 4 (b)

This question generally produced answers which were focussed on aid, although with variable detail. Most candidates knew of various types of aid such as bilateral and multilateral although the definitions of these were sometimes not very clear. Bilateral aid was often discussed in the context of tied aid. Often the case study of the Pergau Dam in Malaysia was used - now over 20 years old. The Akosombo Dam in Ghana was also used as an example of aid not reaching people in need and instead benefiting a small number of people and industries. It was constructed in 1965. These ageing case studies do date from a different age and may well be due for retirement. NGO aid, as well as emergency aid, usually elicited more detailed and up to date examples and many candidates considered its costs and benefits, with stronger answers directly linking to the idea of the development gap and whether such aid could help bridge it. Weaker answers tended not to make this link and were therefore not evaluative in the context of the question. Fair-trade was often included as a type of aid, which it is not. However, stronger answers used fair-trade, FDI and the MDG as alternative strategies to aid, often arguing that these were better ways to bridge the gap. There was generally good understanding of how multilateral aid could lead to debt, and how debt relief as a form of aid might help a country progress – although with some costs.

This is an example of a Level 3 answer to Question 4 (b).

4.) (.) Aid is a form of assistance given to
the developing world, unally in the form of money
but also as food or technical assistance. It is a
widely used strategy to reduce the development
One benefit of aid is that it can help
to die government with providing basic
resomes and senses Monetary forms of aid can
help to pande schools, which improves the
productivity and living standards of its people, or
healthcare.
Momener, aid can be lost to comption.
Many & dendepage combs, such as Zinhaburo, are
our by palitical dictators who are entremely compt.
Aid can be stolen or incorrectly used, eig in
aganda so called Shadow schools have approved -
physical estellahments with no real students as a

way of hiding where money is really going. Giving food and does have benefit by reducing hunger. In 2002 Suaiziland som a derestating drought that reduced crop yields and put countres at osk. In respons, the World Food Organisadion delirered food to 100,000 people in 2003. This imposed the health of the local people to give the economy chemeo to recover. In contact honever the food aid had deventating exact on farmers. By possessing free And, Swaz-land's food prices fell, and formes Saw record low revenue and profit Therefore while many beneated from this aid project, there was a lago community that did not. Another benefit of aid is that it can be used to relieve debt issues. The World Bank and IMF often give aid in the form of comercional loons, i.e very low interest ats to help pay off previous debt. This reduce & poor countries in come being lost to debt repayment and can be spent on improving living standards in the country. However, many such looms come tool with Strictural adjustment policies (SAPs) which must be enformed by the reciousng county. Ugoid was faced with such policies in the 1980s by the World Bak. Often theo SAPs will require trade

liberalisation, foreign donate firms to compete with nich MB TNG, as well as to reduce spanding on healthcare and education. The World Bank consider to aid projects in Uganda a sever with GDP per capita rising steadily but it remains as an inered-bly poor nation. Another benefit of aid is that it provides laye scale projects to courties who may never have been able to agrand it athering. One example is the LK Water and Sontation project in Sn Laka my by the World Bank. The World Bank is on example of multicles aid and apades in over 190 courtes worldwide. Their project has enabled Sci-Lankan comments to build a pumpt to tank to improve wester searty and inprove sewage and water networks. Basic infastmento lito there are a neverty for any country to properly develop. Moment, lago scale project may net beneat countries of they come in the form of fred aid. Tred and yes to aid that comes with conditions Machod. For example, the Pegan Dan was butt in Malayria by the UK department for development & in the early 2000s, costing £230 million Honever, Maleysia were required to they buy flon worth of fighter jets in return, reducing the not noth of the aid The dam was party built

To conclude I do not believe aid to
be a beneficial or sustainable solution to
reducing the dorelayment gay while there are
depende advantages of programs there are simply
too many introduced will the money to used
correctly will it reach the porent people etc.
A more expective solution which would also not
lead to depending a and would is to mat in
FDI and trade links to enable the developing



This answer is well structured so reading it through, it has a logic and organisation. It covers a range of different types of aid including food aid, SAPs, NGO aid and intermediate technology and tied aid. Examples are used throughout so there is evidence to back up the evaluative points made. The costs and benefits of aid are clear, but the answer lacks a sustained link to the idea of reducing the development gap. It is mentioned in the conclusion but only really implied elsewhere.



15 mark essay questions always benefit from a brief introduction and a brief conclusion to 'top' and 'tail' the answer.

Question 5: The Technological Fix?

Question 5 (a)

As in the past, Question 5 tended to produce quite polarised responses. Figure 5 showed the relationship between internet use and income – income being the independent variable. A small number of candidates approached Figure 5 from the standpoint of internet access determining income. This could form part of the answer, but as the whole answer it was usually rather confused. Most candidates were able to explain how incomes could lead to increased internet use through buying power and ability to buy and use mobile phones and computers. Weak answers often failed to move beyond this and provide further possible explanations. Stronger answers suggested factors such as increased government investment and the fact that as countries develop urbanisation generates centres of population that can be relatively easily connected so percentage use can quickly grow. Political and physical limiting factors were sometimes mentioned as was the sectoral shift towards services causing an increased demand for internet infrastructure. A number of answers recognised that leapfrogging to mobile internet use could play a major role. Rare were answers that specifically considered some of the named countries, despite some of them being familiar.

Question 5 (b)

An issue here, which has been seen before, is the definition of 'technology'. A number of answers used policies and strategies such as the COP21 and Kyoto Protocols as part of their answer. These are not technologies but global agreements. Many answers focussed on geoengineering schemes (all of which are proposals) and often provided some good detail on these, although frequently without stating their global nature or providing any evaluation of them. Renewable energy was often mentioned as a method of mitigation and examples used. A small number of candidates risked turning their answer into one about energy, food or water security as their examples increasingly drifted away from the central focus of the threat from global warming. Local technologies often focussed on flood protection, or food production and water supply but often not in the context of 'adaptation' which was a little disappointing. Many answers would have benefited from a more careful structure and some were wholly focussed on global geoengineering with no local technologies at all. Stronger answers focussed on the idea of attitudinal versus technological fixes and came to a clear conclusion about which technologies were needed, where and when. These answers were relatively rare.

This is an example of a Level 3 answer to Question 5 (b).

(b) "Global Warming is the single biggest threat that humanity currently fees" (Al Gore - an unconvenient truth) Global warming almost certainly caused by the release of greenhouse gases by humans is one of the biggest chillenges are fee as a species. Many, such as economist Esther Baserup beleive technological fires fin this case on a global and also local scale) will always come to the aids of humanity, but others disogree, beleiving an attitudinal & change is the

Geoengineering is the process of re-engineering the earth's climate to a pre-industrial stage where CO2 was around 250 ppm. Now at 410 ppm. a combination of global mega projects and bottoms up local schemes are needed to reduce the effect of this added greenhouse gas concentration.

Space Mirrors is a plan to launch hundreds of finitions of mirrors into space to shield the Earth from solar rediction, reducing the temperature of the atmosphere in the process. It is estimated 20 million rocket locanches would be needed totallying an estimated US\$4 trillion (double the UK\$ GDPI) This schame is hard to made so there would likely be numerous unforseen negative externalities, mainly involving shifting climate regimes.

Ocean falilisation is the process of dumping iron

particles into oceans to stimulate the growth of

phytoplanton, which photosynthesise, sequestrating COz

from the atmosphere and trapping it in ocean

sediment when the organisms die It is estimate

it would cost US\$50 Lillion every 2 years (at \$50 per

tonere of iron) to sequestrate enough corbons Again this

mega project would have numerous negative externalities

most likely changing the balance of all of the oceans ecosystems. Kelessing Sulphur dioxide particles into the upper atmosphere is another proposed geoengineering scheme. The particles would reflect solor radiation, decreasing the worning of the atmosphere and mitigating the effects of global warming. Relatively throp. It is estimated it would cost US\$100 million every month and his already been trialled when Weatherbird I released 2 tennes of particles in 2007. Negative externalities include acid rain, a serious threat p ecosystems, and unfospen to the global climate. On a local scale afforestation schemes using community involvement and action could help to mitigate the effects of climate change. Planting trees increases the sequestration of CO2, reducing its concentrate but would also decrease the risk of local flooding which is predicted to be one of the damaging effects of global worming. Artificial trees are potentially another local technolix; using limewater and other chanical processes to artificially remove CO. from the air. Dr Klauss Lackner, who invented one type of system envisoges

a world with communities each having their own ortificial tree creating corbon neutral societies. On a larger scale on American company corbontech', is trying to build a mega project artificial tree capable of removing 90,000 tonnes of CO. from the atmosphere each year the equivalent of 15,000 cars).

In conclusion technofices do have the aparity to reduce the effects of global warring, however the selection chosen must discount those with hamful externalities, such as sulphus particle distribution. I also believe that technology alone is not the answer, it must be coupled with attitudinal change if we as a society are going to achieve climbe target before a predicted tipping point is reached. A point of ne return predicted to be 450 april of CO2 in the troughts



This answer begins well with an introductory paragraph that considers the issue of global warming and shows understanding of it. A range of global geo-engineering options are considered in the answer with some detail and support. However, there is very little that is 'local' in scale other than a mention of afforestation (and even this is in a global context). The conclusion provided is evaluative, but the lack of local scale technologies prevents the answer achieving a Level 4 mark.



Notice that the answer to Question 5(b) includes some numerical data. This 'stands out' when you glance at the answer. Data gives an answer a bit more 'weight' and makes the evidence use more concrete.

SECTION B

Overall comments on Section B Issues Analysis: 21st Century Superpowers: India and China?

This year's Issues Analysis was set in Asia. This is an area all candidates are familiar with. The overall quality and level of understanding was good and most candidates wrote three successful answers, with some outstanding answers. There was a tendency, especially in Question 6(a) to see the question as being about 'Chindia' rather than China and India as separate and very different entities. This undermined the idea of a comparison. Questions that include the word 'political' tend to be weak as candidates' understanding of this concept is very variable.

The pre-release is available for a long period of time, but candidates still need to make sure their preparation is thorough:

- Ensure candidates know the resource booklet well before they enter the exam; time should not be spent in the exam looking for the right resources to refer to.
- Use the resources provided; many answers this time studiously ignored some of the key data and resources and instead wrote answers without the data provided.
- Ensure candidates understand the sequence of the resource booklet; it is usually organised into sections either with sub-headings or by topic, and questions normally focus on one section (with links to others).
- Prepare synoptic ideas by researching using the websites provided (and others), thinking about the relevance of models, concepts and theories, considering parallel and contrasting examples from other parts of the world, and linking to concepts and content in other AS and A2 units.
- Consider the wider geography of the region in terms of development, physical features, culture etc.
- Do not try to anticipate questions.

Time spent planning, briefly, all three answers is time well spent. Some answers to Question 6(a) used data and resources from pages 4 and 5 in the booklet whereas the most relevant information was on the first two pages. Candidates who do this end up repeating themselves and worse, risk losing the thread of their answers.

Question 6 (a)

There was some evidence of candidates attempting to 'spot' the question here with some answers comparing the level of development of India and China rather than their economic strengths and weaknesses. Perhaps the key issue was that answers often lumped China and India together and discussed them as one. This rather undermined the idea of making a comparison. That said, most answers did focus on economic strengths and weaknesses and made some use of the resources provided. Less use was made of Figure 5 than might have been expected and in some cases candidates began to use the resources on the last two pages of the resource booklet. These focussed on the future and were therefore not relevant to this question which was about current strengths and weaknesses. There was evidence of good synopticity in terms of research into TNCs and FDI, although there was a tendency to assert that state owned enterprises were a weakness without attempting to explain why this might be. The best answers, as is usually the case, used the figures and data in the resource booklet thoroughly and selectively to build a case - usually that China's economic position is stronger than India's. A number of candidates still fail to make much use of the resources in the booklet in front of them; what is being tested is a candidates ability to interpret, select and use geographical information to make a case and this means 'off the top of the head' answers are unlikely to score well.

This answer scored Level 3 marks for Question 6 (a).

- (a) Compare the **current** strengths and weaknesses of the Chinese and Indian economies.
 - (b) To what extent do the political systems of India and China help explain the Social Progress Indicator scores in Figure 6?

(10)

(c) Study Figure 15.

What positions in the geopolitical power hierarchy are China and India likely to occupy by 2030 **and** 2050? Justify your answer.

(16)

ba) As commendered economically they can more through the stages of Rostonis modernisation model which describes a travition from a traditional society to an ear of high mass consumption. Union and India much we part of the BRIC grouping present examples of the drive to maturity stage as consumption and economic ground increase greatly thowever, there are economic stroyme and worknesses based on their dependence on global maket, grown rates and introductioned commiss.

Dependency on external market and global consumption is a dominating patter that die highlights the differences between their disconomics. Chiese has developed using a fixed exet invertuent and a stimulus lead grown union

was boosted by extence invarment from TNC and mough FDZ. However, he fact that hey are now he lagest exporting ration in the world has created a number of weaknesses. They are very vulnerable to the volatility of global markets at figure 2 suggests by their rapidly diarying GDP growth rates. The recent about depression of oil prices by 40% in one year has caused truit grown rates to hit lowest levels in 20 years. They have very low internal donneric connugricus to support he economy and so are extremely vulnerable to The decree to son down in global consuption which was caused by the 2008 tinascial crisis. On the other hard, India is a rese than relatively closed economy ad according to beinge Magnus presents "a model of economic grown". Their donestic marcet makes up 57% of preir 6DP and los small business owners have been protected by the \$60 lillion worth of absidies. This intend warret protects then against external rotability and the low oil pices have helped to push gown rake ever higher.

It is inportant to compare the current size of earn economy and fineir grown ratel, suggesting reasons as to may they are like this living stands as the second largest economy in the world, and the largest in Asia when you at \$11 trilian (2016). It dominates off 20% of glassar trade and it a wenter of nony lywellial organization was a the 620, spee and he sharper coperation organization.

union give it a large capo leverge over global markets and the potestial to grow as an economic experience: India has a ruch smaller economy of \$2 trilian and its output on is to a fight of clina's. It's GDP only naties up 2.5% of global opp and it only has 8 of The Forture 500 coursies. However, Clina's wealth is very much state-owned and naminally their GDP is shu below world average and their growth nate Stagnated to 6.9% to 2015 union was love man ludias for the first three in decades. This date suggests that China is a global economic power and has huge potential to expand into its danielic nather and regional reignbows but it must exercence its industrial evercapacity and inequality in thru of where the wealth is held-India, although it has a smaller economy, has posestial for growth but must improve its ignuence in terms of TNCs and world trade.

It is Isteresting to analyse his differences in their industries to congare their economies. Union is heavily selicit on the manyanting industry is steel and confunion.

Can be seen from figure 3. The majority of their importance are train materials unject all of their exports are high team commitment, India parts on the otherward, it sould appealed on agriculture for 60% of it industry union highlight how, in terms of elements development, if it much purpose technical things.

Overall Univers ropid grown rates over the late two decades of an average of 10% highlight its started of the proper the femu of the namyaching industry. Movever, this grown rate is not assistable and as it more that stage 4 as 5 of ecotons's development model, its containing will face lugge challenges. India to the order are assumite, has grown at a more sustainable rate and its airest economy is healthy but the jugostructure quality and high povery levels much be addressed to keep the Containing story



It uses the language of economic geography and contains some synoptic ideas as well as making good use of a range of data from the Resource Booklet as evidence to support the answer.



Be careful not to pre-judge the Issues Analysis questions. A number of answers to Question 6(a) focussed on the development level of China versus India whereas the actual question was focussed on economic strengths and weaknesses.

Question 6 (b)

This question had a political focus and as such it proved quite demanding. Focussed on Figure 6 it asked candidates to consider whether the political systems of China and India would help explain the Social Progress Index results shown. Answers tended to divide between those that provided a very descriptive comparison of the two sets of data with little in the way of explanation, versus those that attempted to link political management to the data. It was common to see arguments based on the idea that China's command economy and Five Year Plans had improved basic human needs by ensuring minimum standards for everyone. Stronger answers argued that this was as much to do with FDI and economic growth as it was with politics. Some stated that despite huge subsidies for the poor, India still failed to meet the basic human needs of many. Other common assertions were that opportunity was restricted in China because freedom of speech was limited, but also that in India the caste system restricted opportunity so that the two countries arrived at the same SPI score by different routes. It was very unusual for answers to make use of Figure 7 which showed democracy versus economic development although a small number engaged with the idea that some Asian NICs that are democracies today were not so when they industrialised. Other points included the idea of aid from the USA helping their initial development more than democracy. A stronger understanding of 'political' i.e. governance and management would have helped some candidates.

This is an example of an answer to Question 6 (b).

BE(6b) The SPI scores of China and India respectively and approach may be apported by the political systems and ambitions in a number of agus. Bor China's communist politics play a large part in Cruting apportunity Fer 26 14 allan peple, requiring strictly enforced laws and a limited wice in notieral affeors. This has brought benefits in developing infrastructure quickly, including the 93,000 km of railine which make commeting and urban living possible. This may have increased the FW score which is approading the UK, as healthcare and ICT are teccoming common cocross China and Living standards

are greatly improved - it in China's own communist way. Educational spending is also rising to allow tertiany industry to durp. On the other hand Chinese people are growing Eined and this lade of personal hedan darks OP and FW somes down. With Pollution Fotgue and a rising middle chos It reams easy to see the social Lurelus of the practical system and how this degrades the SPI score. Indicis developey and large popul Irdia on the other hand is the autur largest democracy as shown by the eliqubility of 814 nullian to cate. This could be the enabled Car do Slightly higher OP score due to the access to jobs and on Greedow, thought this is impacked by lactors such as the Caste System and eepe culture sorrounding women which endangers that apportunity in an althorest way. The reliance on pleasing the electorate 6 scure power may also sku progress through hearonery. This is evident through India's por intrastructure Er which Goldmann Scots extincibes will red SI trillian in spending by zozo to mainterinds econenic postion. 475 all ke on roads and also on lass = compone up of life such as worker

and power, both of which would correndly closuroge

Its BID score, which is significantly love though

Connunt of On now

To conclude, I believe that Chine's system,

borness the most benefits to its SPT some through

to its spending and ability to provide apportunity.

Through consonic growth.

Tapun Lest Pollition



This is a Level 3 answer. It makes good use of the SPI data and refers to several different aspects of the SPI. The position of India and China are explained with reference to political systems, and wider issues such as the Indian caste system.



During the pre-release phase you need to carefully study new concepts – like the SPI – to make sure you fully understand their meaning before you go into the exam.

Question 6 (c)

The final question was a large one, which asked for a consideration of China and India in 2030 and 2050.

The key differentiator for a successful answer was structure. There was a lot to consider and some organisation was essential. Many answers used the 'pillars' of superpower status to make a case. These answers tended to be synoptic although in a small number of cases such answers largely ignored the data in the booklet and went their own way (which ignores part of the test).

Figures 12, 13 and 14 concentrated on future resource demand and environmental risks which did need to be covered in a very good answer. These areas are not part of the 'pillars' so tended to be ignored. Good answers often made a case that India in particular faces resource and climate change issues which could derail it by 2050, when combined with its very large projected population increase.

Some answers focussed very heavily on a narrow idea. Most often this was the demographic future of the two countries and / or future GDP. Again, these answers tended not to engage with the full range of resources provided. A further issue was the failure to differentiate between 2030 and 2050. The resources provided could be used to argue that in 2050 China may be facing demographic problems, whereas India would be benefiting from a demographic dividend – but at the same time could be struggling to provide basic resources for its still growing population. These complex arguments required a careful, structured approach to the answers to minimise contradiction and make a strong case.

This is an example of an answer to Question 6 (c).

C.) A superposer is a country or region with ponegal ishere on global match, as well as a strong matify of process, economy and cultural image.

I believe that in 2030, China will be at the very less a petertral global superpower. In Figure 12, its GDP will be only just behind that of the U.S., the only cument superpower. A logo economy gives China greater power are global match, and already the consumption worldwide I believe that China may even become a global superpower by this point, if its trend in military spending in Figure 9.

is set to continue China has shown exponsionist patries by building a blue water namy and expanding preums of the People's Liberation Army Navy & beyond the 1st Island chain. Honever, I do not believ its superposer states is guerendeed in 2030 as it still must improve its social and cultural imago. A low GINI coexecuent and GDP per capita means the nation are not set on the to OECD, implying other nedrous do not new it with high regard in all By 2080, I believe will the china will have detentely become a superponer It will have a GDP 12.5 Lillion USS higher than the US making it the most important global power on world markets. It's population will have also faller #8 by 88,000 between 2030 end 50, signifying a more sentenable growth. As GDP will exceed annual population growth, thre should be a gonuine rise in wealth per proon. This wealth should enable China to invest in policies to Improve engy searsty, such as contained with dusalization plans. Homever, the most Significant rik will be China's demegraphics Bu 2050, 26.9% of China will be over 65, meening an ageing population. Movever due to the rest 2 child policy. Ther may not be too significent as the Chinese government is charly aware of the rane and enacting menegement solutions. India could see a very degrent future than China. By 2030, it economic growth will trops bare tripled, but only to around # US\$11 tillion, only a fragment of the US or China. This would suggest India is colletely going to be a superponer, but remain as a regional poner in south-east Asia In June 2016, the US military expressed comes over China's invaige naval prisered in the East and South China coo, as nell as the Indian Ocean. The US has ossard to cooperate with the Indian Namy to expand its priseres and inprise military influence is the area. As the military is an important superpower characteristic, this may push India slightly up the heracky. By 2000, it is clear that India's rapid growth will have become unsustanable. The population uil see an increase of 24.9% between 2020 and 2050 (Fig 10) leading to promise on resources. India is littly to see premio or overy, water and food supplies. These will be compled with over a 3.590 tempodre inner in mean

of India (Fig 14), which will negodialy agout crop yields and donotic water sapplies Unles India adorph a more trado liberalistic, globalisation epproach it could see serous problems. A potential global saperpower should be able to cater for its population As global food demand will meses by 70-100 % by 2050, India will see it expensive to buy food abroad and difficult to grow it donstically due to global worming. This puts China at a much more favourable position, with only around 1.5% tempratue nereenes by 2050. However, India well littly still stay a regional power due to the promising damagraphic and technological advacaments that could allow it to gow as a mojor exporter = in Asia. To conclude China's growth looks to be

To conclude Chinais growth looks to be much more sentaments. While it will too the same problem as India its economic growth and population puts it into a much more formable position than Its postion a a global superposer is regulitated.

1. 3050 if not 2030



This is an excellent answer that gained full marks. It covers the future of both India and China in detail, and considers 2030 and 2050. It uses all of the relevant resources in the Resource Booklet and contains a range of synoptic points from wider research.



It is wise to plan answers to longer questions worth 14–16 marks to make sure you don't miss any key points of data from the Resource Booklet.

Paper Summary

There were many good answers to the questions on this summer's Unit 3 Contested Planet paper in both Section A and B. The lack of use of key data and resources to provide evidence for answers to the Issues Analysis by some candidates was noticeable. The following points might be considered going forward to 2017 and the final full-cohort exam.

- Although it is tempting to try and spot questions in Section B, this is a dangerous game that leads to confused candidates and weak answers.
- The Issues Analysis, first and foremost, is a geographical comprehension exercise and as such candidates need to select and apply evidence from the booklet to answer the questions.
- Command words such as 'assess', 'evaluate', 'discuss' and 'to what extent' require a judgement sitting on the fence produces weak answers.
- The Water Conflicts question particularly continues to suffer from 'case study overload'
 i.e. unselective, write-all-I-know-about, poorly applied case studies. In the worse
 examples the case studies chosen are not relevant to the question at all. The question
 is usually not about 'conflict'.
- As has been said before, often a brief summative paragraph using evaluative language would be enough to lift some out of Level 2 and into Level 3 in the 15 mark part (b) questions in Section A.

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





