Paper 0460/11 Paper 11

General comments

The examination was considered appropriate for the ability range of candidates and a high level of differentiation was achieved throughout. Some excellent responses were seen to all questions (whichever were opted for) and candidates were able to show their level of ability and understanding and gain A*/A grades. The quality of responses seen seem to be improving compared to previous years. The full range of grades were seen across the paper.

The more structured questions, worth fewer marks, allowed all candidates to achieve positively. Likewise, questions referring to source materials provided all candidates with positive opportunities to gain marks and source material was generally well used.

Inevitably there were candidates who performed poorly in the examination, this may be due to a variety of factors i.e. they were poorly prepared for this type of examination, lack of understanding or linguistic difficulties in understanding the question fully in another language.

Many candidates use geographical terminology appropriately and confidently and are able to recall case studies in detail, particularly when they are case studies local to them or from within their own country. Nevertheless there are still many candidates who fail to give place specific information in order to gain the full Level 3 marks (having given some very detailed Level 2 responses). Weaker candidates tend to list their responses in bullet point form and as a result do not gain more than Level 1.

Candidates would be advised to practice answering questions that require comparisons to be made, as they tend to list ideas rather than making direct comparisons.

The following detailed comments for individual questions will focus upon candidates' strengths and weaknesses and are intended to help centers better prepare their candidates for future examinations.

The following items of general advice, which have been provided previously in this report, need to be given to future candidates who should:

- make the choice of questions with care, ensuring that for each question they choose they have a named case study about which they can write in detail and with confidence.
- answer the three chosen questions in order, starting with the one with which they are the most confident, and finishing with the one with which they are least confident (in case they run out of time).
- read the entire question first before answering any part, in order to decide which section requires which information to avoid repetition of answers.
- highlight the command words and possibly other key words so that answers are always relevant to the guestion.
- use the mark allocations in brackets as a guide to the amount of detail or number of responses required, not devoting too much time to those questions worth few marks, but ensuring that those worth more marks are answered in sufficient detail.
- consider carefully their answers to the case studies and ensure that the focus of each response is correct, rather than including all facts about the chosen topic or area, developing each point fully rather than writing extensive lists of simple, basic points. It is better to fully develop three ideas rather than write extensive lists consisting of numerous simple points.
- study the resources such as maps, graphs, diagrams and extracts carefully, using appropriate facts and statistics derived from resources to back up an answer and interpreting them by making appropriate comments, rather than just copying parts of them.

Comments on specific questions

Question 1

This question was by far the most popular choice made by candidates as over two thirds elected to answer this question.

- (a) (i) The majority of candidates correctly answered within the allowed range of between 16.8 and 17 for the total population in country A between 0 and 4 years. Some candidates just gave either the male or female side of 8.5%, which did not gain a mark.
 - (ii) The majority of candidates gained both marks for correctly identifying that country B has the highest life expectancy and country A has the highest dependency ratio. A few candidates failed to gain the second mark as they either left it blank or wrote the same answer twice i.e. country B.
 - (iii) A wide range of responses were seen here as many candidates referred to age groups and birth and death rates rather than the shapes of the pyramids. Those that described the base, top and middle of the pyramids gained the full three marks as the question asked for three differences between the shapes of the two pyramids. For example 'Country A has a wider base; Country B is wider in the middle; Country B is taller; Country B has a wider Apex'.
 - (iv) The majority of candidates were able to gain at least two or three marks for answers referring to 'large percentage of 0-14 year olds; high birth rates; high death rates; low life expectancy' these were the most common responses used to explain how the population structure of country A is typical of an LEDC. Some candidates who gained full marks also correctly recognised that there is 'a high dependency ratio and there are decreasing numbers in the 15-64 age groups'. Some candidates also included irrelevant reference to details explaining reasons why the population structure has these features for example 'a lack of family planning'.
- (b) (i) Some good comparative answers were seen here with many candidates able to gain one or two marks at least for comparing the sizes and age structures of the population in Africa and Europe in 2000. Most commonly seen responses were 'Africa's population was slightly larger than Europe's; Europe had a larger percentage of over 65's; Africa had a larger percentage of 0-14's'. Some references were made to changes by 2025, which were not relevant. For comparative questions candidates should be encouraged to compare properly using words like 'whereas' rather than writing two discrete accounts.
 - (ii) Many good responses were seen here and candidates were able to develop their answers and in many cases gain the full five marks available. Responses included ideas such as 'longer life expectancy; better treatment for names disease or diseases; improved healthcare facilities or examples; improved food supplies; vaccinations; education or awareness of healthy living' to name just a few examples of why there is an expected increase in the percentage of population over the age of 65 by 2025.
- (c) Most candidates were able to gain marks and many responses gained Level 2 marks for developed responses but fewer candidates gained full Level 3 marks. Most candidates were able to name a relevant country and most could describe the problems caused by an increase in the percentage of people over the age of 65 in simple terms such as 'increased percentage of elderly dependents; higher taxes; need for money to be spent on care of the elderly'. Some candidates were able to gain four or five marks for Level 2 by expanding their responses such as 'increased elderly dependents puts an increased strain on the working population; need for more money to be spent on care homes or healthcare'.

Question 2

Question 2 was the third most popular choice made by candidates as approximately half of all candidates selected this question.

(a) (i) The majority of candidates were able to correctly give a definition for urbanisation. Many different ways of phrasing this were expressed with some being more clearly expressed than others. Most gained the mark for ideas such as 'a growth in urban areas; an increase in the number of people living in urban areas or rural areas become built up'.

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- (ii) The majority of candidates were able to gain the full two marks here for correctly identifying a country where 75% or more of the population lived in urban areas in the year 2000, such as 'USA/Canada/Brazil/UK/France' to name a few. The second mark was gained for candidates correctly identifying a continent in which there were some countries with less than 45% of the population living in urban areas in the year 2000, such as 'Asia/South East Asia or Africa'.
- (iii) Many candidates were able to gain at least one mark for describing the distribution of the world's fastest growing cities. Many gained a mark for referring to continents or LEDC's, which was to a maximum of one mark. Many others referred to the `south` but then added `hemisphere` which was not allowed. Some reference was seen in relation to coastal locations and some mentioned `tropical` (in variety of ways).
- (iv) Some excellent full mark responses were seen to this question with candidates being able to describe the environmental problems caused by the expansion of towns and cities into the surrounding rural areas. Some candidates referred to problems for people but most could refer to at least one or two environmental problems. Most commonly seen responses were: 'loss of habitat; deforestation; atmospheric pollution; floods; impact on food chains or ecosystems'.
- (b) (i) This question was generally well answered by almost all candidates. They were able to use Figure 4 to suggest three reasons why many people are moving to towns and cities in Botswana. The most common responses were: 'good transport links or accessibility due to roads or railways; mines for work; access to water supplies'. Most candidates gained the full three marks.
 - (ii) Many good responses were seen as candidates were able to identify the problems caused for people who live in such rapidly growing urban areas in LEDC's with issues such as 'unemployment; not enough housing; squatter settlements grow; service provision being inadequate i.e. not enough Schools or health services and poverty' being well understood.
- (c) Many candidates used South American examples of towns and cities and quite often compared an area of squatter settlement with a more affluent area. A few very good accounts were seen from candidates although most did not reach Level 3, as they did not give developed comparisons of the location and characteristics of the two contrasting areas. Many candidates gave a lot of detail on one area but limited on the other area. Those candidates who compared directly for example 'Area A has houses which are self built but area B has houses which have been professionally built' were most likely to identify and develop clear comparisons. Those candidates who described areas separately often did not compare them in detail. Some good inclusion of place specific detail was seen but could not always be credited, as there was not enough detail elsewhere in the response to have reached the top of Level 2.

Question 3

This question was the least popular choice made my candidates (sixth) with approximately only one quarter of all candidates choosing it.

- (a) (i) The majority of candidates were able to correctly identify the river feature being shown as a 'Meander'. Thus, most candidates gained the mark.
 - (ii) Similarly the majority of candidates correctly identified the areas on Figure 5 where the processes of erosion and deposition are taking place as X and Y respectively. Alternatively candidates may have said 'erosion on the outside of the bend and deposition on the inside of the bend'.
 - (iii) The vast majority of candidates gained two marks most commonly for referring to 'high velocity near X and low near Y' in order to describe how the velocity varies across the river cross section. Some candidates made references to 'higher velocity in deeper water; lower velocity near the bed or higher velocity near the surface' thereby gaining the full three marks available.
 - (iv) Overall the vast majority of candidates struggled to explain why a flood plain and levees may develop in the lower course of a river. One mark was most commonly scored mainly for reference to flooding. There was a lot of misconception that rivers flow slowly. It is the stagnant or slowly moving flood water which has overflowed that causes the deposition to occur, especially when it retreats, evaporates or is absorbed. Very little reference was seen to coarser materials being deposited to form levees and finer materials being deposited to form flood plains. A second mark

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was often awarded for candidates explaining that the process repeats and levees build up over time.

- (b) (i) Most candidates were able to show some understanding of why the removal of forest to build the airport road is likely to increase the risk of flooding in the area. Most common responses referred to 'lack of absorption or interception; soil will become compacted or saturated; more overland flow'. Also some good references were made to the impact of replacement of soil with tarmac. It was pleasing to see that hardly anyone copied out parts of the extract (Figure 6).
 - (ii) This question differentiated well and many good answers were seen to explain why in many LEDC's, large numbers of people live close to rivers which may flood. A wide range of reasons were given most commonly referring to 'flat building land; use of river for communications/transport; water for irrigation; use of river for fish for food supply'. Some responses concentrated on one idea mostly 'water supply' without developing the answer beyond this. Some candidates included tangential references to tourism or children playing in the river.
- (c) The majority of candidates were able to name a river, which they had studied and most of them were able to gain some marks for explaining what had been done to reduce flooding. Candidates most commonly gained marks for reference to building embankment or dams. Level 2 responses were seen for example 'build higher banks so that the river will have greater capacity' however, many candidates did not give three developed ideas with place specific information in order to gain Level 3 marks.

Question 4

This was the fourth most popular choice made by candidates. Approximately just under half of all candidates selected this question.

- (a) (i) Only a few candidates could define drought. Many candidates merely referred to 'shortage of water' idea and of those who referred to 'lack of rain' they did not include 'long period of time' idea and hence did not gain the mark.
 - (ii) Many varied responses were seen which may be due to some candidates missing the word 'location' from the question. The majority of candidates gained the similarity between the locations of the areas affected by drought and tropical storms for 'in tropical areas' idea. The second mark for a difference between them was usually gained for 'droughts usually occur inland whilst tropical storms usually occur near the coast'. Most candidates gained the similarity mark with fewer gaining the difference mark.
 - (iii) This question was generally well answered and candidates were mostly able to describe three hazards for people, which result from tropical storms. The majority of responses most commonly included ideas such as 'hurricane/strong winds; flooding; damage to roads and bridges; damage or loss of housing; loss of electricity supplies'.
 - (iv) The majority of candidates gained one or two marks but answers tended to be vague. The majority of candidates could not explain why earthquakes and volcanic eruptions occur in similar areas beyond stating that they 'occur at or near to plate boundaries, or that there is movement or a description of the movement'. Only a few candidates identified that there is a 'build up of pressure'. Very few gained the full four marks available.
- (b) (i) This question was generally well answered and many candidates included the use of statistics. The majority of candidates were able to justify their answer as to whether bigger earthquakes cause more deaths by using the data provided. Most commonly candidates said 'yes they do as the Indonesian earthquake in 2004 had a magnitude of 9.0 and killed 283 000 people' or candidates said 'no or recognised that there is no obvious link or pattern to be made' and justified this by saying 'in the USA a 9.2 earthquake only killed 125 people whereas 9500 deaths were caused in India by an earthquake measuring only 6.2'. However, some candidates included reasoning which was a requirement of part (ii) rather than part (i). However, the vast majority of candidates gained the full three marks available here.
 - (ii) A wide range of answers were seen to this question suggesting reasons for the variation in the number of deaths caused by the earthquakes listed in Figure 8. Many candidates showed a good understanding of a range of factors most commonly including: 'magnitude; population density;

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quality of housing; how prepared people are; level of economic development'. Many candidates gained full marks and developed their answers clearly and in detail.

This question was generally well answered with many candidates gaining Level 2 marks and some going on to gain Level 3. The majority of candidates were able to name a volcano, which had erupted and describe one or more effects. There were very few who confused effects with causes and some candidates named the country rather than the volcano. Some excellent responses related to 'local' South or Central American volcanoes. There were some well learned examples of Mount South Helens although not all accurate as some candidates referred to thousands of deaths and others referred to people being killed by lava which is not true of Mount St Helens. The majority of marks were gained for ideas such as 'people killed by lava or toxic fumes; houses being destroyed by lava; roads and railways being inaccessible as they were covered in ash'. Place specific detail often included dates of the eruption, number of deaths, names of settlements or rivers.

Question 5

This question was the second most popular choice made by candidates with over half of all candidates selecting to answer it.

- (a) (i) Virtually all candidates were able to correctly identify the percentage of Bolivia's water used for agriculture as 80%.
 - (ii) This question was also well answered by the majority of candidates with them able to gain the full two marks for correctly identifying that the largest percentage of water used for domestic use is 'Denmark' and for industry/electricity generation it is 'France'.
 - (iii) As with previous comparative questions the candidates who gave comparative ideas tended to score full marks. Those who listed rank order for each made it much more difficult for themselves to do so. Hence, ideas such as 'greater proportion used for agriculture in LEDC's; Greater proportion used for industry/electricity generation in MEDC's; greater proportion used for domestic purposes in MEDC's' rather than naming individual countries and quoting the amount for each sector that they use.
 - (iv) This question differentiated well with many candidates able to gain at least one or two marks for suggesting the reasons for the variation in the use of water between countries at different levels of economic development. Most candidates gained marks for reference to the relative importance of agriculture and industry in LEDC's/MEDC's respectively. Candidates gaining full marks were rarely seen.
- (b) (i) This question also differentiated well as many varied responses were seen. Candidates mostly gained two marks with some gaining all three. Candidates were usually able to state one way in which the economic activity shown in Photograph A may cause water pollution by referring to 'disposal of effluent/sewage or waste into the sea'. Fewer candidates gained the mark for Photograph B as they did not recognise that agriculture could cause water pollution and some said that it could not cause water pollution. Some candidates gained the second mark for identifying that Photograph C could cause water pollution from 'oil spillages or fuel leaks'.
 - (ii) Varied responses were seen for this question with some excellent well developed references to the impacts of water pollution on people and the environment for full marks. Some candidates did not develop their ideas beyond 'killing fish' and unspecified diseases. More developed responses referred to 'water borne diseases; impacts on food chains or ecosystems; fishing industry declines; build up of algae and eutrophication' were most commonly seen ideas.
- The majority of candidates were able to name a valid LEDC or an area like the Sahel to explain how water shortages cause problems for the people living there. Many candidates were able to gain Level 2 marks but few candidates included place specific detail in order to gain Level 3. Answers most commonly referred to ideas such as: 'crop destroyed; have no water to drink; people killed' for Level 1. More developed responses for Level 2 included: 'people have to walk long distances to find water; lower crop yield leads to lack of food supply; death due to starvation or malnutrition'.



Question 6

This was the fifth most popular choice by candidates with approximately just over one third selecting this question.

- (a) (i) Virtually all candidates were able to recognise that the general relationship between the percentage of people employed in agriculture and the GNP per person was a negative relationship and gained the mark.
 - (ii) This was another well answered question with virtually all candidates naming 'Tunisia' as the country that does not fit the general relationship which was stated in (a)(i) and most candidates were able to give the reason as 'its percentage employed in agriculture is relatively high for its GNP'. Therefore almost all candidates gained the full two marks.
 - (iii) Many varied responses were seen to this question with most candidates gaining at least one mark for explaining why a high percentage of the population of LEDC's work in agriculture with the main reason being given as 'lack of machinery'. Some candidates gained a second mark for identifying that many 'are subsistence farmers'. Few candidates gained the full three marks available.
 - (iv) This question differentiated well with many varied answers showing in most cases some understanding to explain why many LEDC's suffer from food shortages, even though a large percentage of their population are farmers. Most common responses referred to ideas such as: 'drought; flooding; overcultivation; soil erosion and ideas related to lack of finances to buy fertilizers or pesticides or machinery'. Many candidates gained two or three marks with fewer gaining full marks or just one.
- (b) (i) Many good answers were seen to this question with most of them gaining full marks. In order to identify three differences in energy used between France and Kenya the most frequently used ideas included: 'more use of oil in France; more use of coal in France; Wood is used in Kenya but not in France; Gas is used in France but not in Kenya'. A few candidates used statistics but did not interpret them i.e. '60% of wood used in Kenya; 15% of gas used in France'.
 - (ii) Most candidates referred to the availability of different fuel types in different countries to show why the importance of different fuel types varies from country to country. Some candidates also referred to the availability of finances to develop or exploit different fuel types. Relatively few candidates gained full marks but those that did developed their ideas with reference to 'environmental conditions i.e. 'to be able to develop solar or wind energy'.
- (c) Many excellent responses were seen to describe the likely impacts of global warming on named areas, which you have studied, referring to people and the natural environment. Full marks were awarded in most cases as accurate references were made to at least two named areas along with excellent developed ideas. However, some candidates gained simple Level 1 marks as they only referred to ice melting and sea level rising. A few candidates did not gain any marks, as they seem to have misunderstood the question as they wrote about deforestation in Amazonia. Most commonly seen Level 3 ideas included: 'ice melts at the polar regions causing sea level to rise leading to coastal flooding in lowland areas such as Bangladesh; Loss of species like polar bears is likely due to lack of ice'.

Paper 0460/12 Paper 12

General Comments

2011 was the first year in which candidates used a question and answer booklet to write their answers, and this was the second paper of this style, the first being in May/June. This format was well received and in the vast majority of cases candidates made effective use of the space provided. Some candidates required space on the extra lined page which was provided for their use and only a few used extra sheets of lined paper. As question and answer booklets will be the format used in future it is important that candidates are made aware that they should:

- write all their answers in the spaces provided in the booklet and not use additional sheets unless
 it is absolutely necessary.
- write only on the lines provided, not underneath the final line or elsewhere on the page (e.g. in any area of unused space at the bottom of a page).
- continue any answers for which they do not have space on the lined page(s) at the back of the booklet. If they do this they must indicate that they have done this (e.g. by writing `continued on Page XX`) and carefully write the number of the question at the beginning of the extra part of their answer.

The examination was considered appropriate for all abilities and a high level of differentiation was achieved throughout. Most answers were well presented, used relevant material, and showed a good understanding of command words and key words and phrases in the questions. Excellent responses to all questions were seen and all candidates, including those who gained A*/A grades, were able to show their level of ability. Structured questions referring to source materials provided candidates of all levels with opportunities to gain marks, and allowed candidates to achieve positively. Generally skills questions were well answered, though reading from a pie chart and identifying the 'main features' with reference to a photograph were exceptions. Whilst there were some candidates who for a variety of reasons performed poorly in the examination (e.g. lack of understanding or linguistic difficulties), these were few in number and most made a genuine attempt at answering their chosen questions.

Able and well prepared candidates attempted to use geographical terminology, some with great confidence, and were able to recall detailed and place specific case studies. However some candidates need to learn their terminology more fully. In this examination life expectancy, amenities, built environment and greenhouse effect are examples of terms which were not well known by significant numbers of candidates. Candidates should avoid using vague terms that are not precise enough to gain marks and these should always be qualified in some way. Examples seen in this session include health facilities, disease, services, facilities, amenities, natural disaster, pollution, erosion, weathering, natural beauty, political problems and quality of life.

The use of local case studies is often helpful as candidates find them more meaningful to themselves, and therefore easier to learn. It is also worth noting that small scale, detailed case studies are often more effective than ones covering a large area. Many candidates are able to give developed Level 2 responses though they need to include at least three developed statements to meet the full requirements of Level 2. Some candidates include sufficient developed ideas but to improve further they should try to also include place specific detail in order to achieve full Level 3 marks. Those candidates who list their responses in bullet point form or make simple, brief points only gain marks in the Level 1 range and in order to improve their performance they should try to develop each point they make.

It is becoming increasingly apparent that candidates from some Centres are using case study answers, which have been included in previous mark schemes. Whilst there is much merit in teachers making use of past mark schemes and familiarising candidates with the style used, care needs to be taken that candidates are not encouraged be learn and repeat phrases from within old mark schemes rather than showing real knowledge and understanding of their chosen case study. It must be remembered that ideas listed in mark

schemes are simply a guide to Examiners and if the case studies are used with candidates the materials should be taught, as with any case study, and the place specific details (and others) included in context of the example chosen. On no account should candidates be given a list of place specific phrases and be encouraged to learn them without developing any understanding of the case study.

The following items of general advice, most of which have been included previously in this report, need to be given to future candidates who should:

- choose their three questions with care, ensuring that for each question they have a named case study about which they can write in detail and with confidence.
- answer the three chosen questions in order, starting with the one in which they are the most confident, and finishing with the one in which they are least confident (in case they run out of time).
- be succinct and immediately focus on answering the question as limited space is available in the answer booklet. Long introductory preambles are not required.
- read the entire question first before answering any part, in order to decide which section requires which information to avoid repetition of material which is irrelevant.
- highlight the command words and other key words so that answers are always relevant to the question.
- use the mark allocations in brackets, and space provided in the question and answer booklet as
 a guide to the amount of detail or number of responses required, not devoting too much time to
 those questions worth few marks, but ensuring that those worth more marks are answered in
 sufficient detail.
- consider carefully their answers to the case studies and ensure that the focus of each response
 is correct, rather than including all the facts known about the chosen topic or area, developing
 each point fully rather than writing extensive lists of simple, basic points. It is better to fully
 develop three ideas rather than write extensive lists consisting of numerous simple points.
- study the resources such as maps, photographs, graphs, diagrams and extracts carefully, selecting and using appropriate facts and statistics to support answers and interpreting them by making appropriate comments, rather than just copying parts of them. Remember to include units when statistics are quoted and refer to years and/or figures when describing graphs.

The following specific comments on individual questions will focus upon candidates' strengths and weaknesses and are intended to help Centres better prepare their candidates for future examinations.

Comments on specific questions

Question 1

This was a very popular question with many candidates scoring high marks.

- (a) (i) Virtually all candidates correctly identified Stage 1.
 - (ii) Most candidates scored one or two marks for appropriate references to birth and death rates. Some candidates lost a mark by wrongly suggesting that birth rate was increasing and sometimes the answer needed further development as it just stated that there was a difference between birth and death rates.
 - (iii) Many candidates suggested acceptable reasons and the content was well understood. Most answers concentrated on the availability of, the use of, or the knowledge about, contraception, however a range of other valid reasons were seen.
 - (iv) Many candidates correctly identified a country and its stage. Some LEDCs were incorrectly identified as being in Stage 1. Most candidates who correctly identified a country gained generic marks about the levels of birth rate and death rate, but very few suggested figures to gain full marks.
- (b) (i) Many candidates described life expectancy of the two countries without making a direct comparison. Where candidates answered the question by making comparative statements they usually scored marks for a descriptive comparison or increase and decrease. The best answers also compared figures, usually for 1955 and 2005.

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- (ii) The most common responses focused on improvements in medical care, water supply and sanitation. Decreases in life expectancy were often explained by reference to conflict, famine and drought.
- Most candidates chose China as their example, and scored relatively well on this case study. Many wrote in detail about the one child policy though some did not develop enough of the ideas which they expressed. Some candidates confused China with Japan and many gave reasons for the policy or described its effects which led to lengthy and irrelevant sections to their answers, but were less certain of the ways in which it is implemented. Some gave rather extreme views (e.g. 2nd children being killed by the government). There is some confusion about exactly what the current One Child policy involves.

Question 2

This was of medium popularity. Those who chose it seemed to answer most parts well, though part **c** caused problems for some candidates.

- (a) (i) Most candidates scored this mark.
 - (ii) Many candidates failed to score because they did not understand 'amenities' or focused on amenities in the area as a whole rather than in the houses. Those who scored marks usually referred to water, electricity and sanitation.
 - (iii) Many candidates gave acceptable answers. A variety of locations were suggested.
 - (iv) Many candidates scored marks by suggesting ideas such as the expense of existing housing and the inability of the migrants to the city to pay for these. Some candidates also included the idea of migration into the city though relatively few explored the idea of the lack of sufficient housing stock, as a result of lack of funding by the authorities or due to increasing rates of population growth (natural and through migration) in LEDC cities.
- (b) (i) Most candidates identified some problems, with air pollution, noise pollution and traffic congestion the three most common answers. Weaker answers included overpopulation or overcrowding.
 - (ii) Most candidates chose traffic congestion or air pollution and were able to suggest specific measures to earn credit. The better answers developed their ideas to explain how they might solve the problem further. Build more roads was a common answer which too vague for credit.
- Those who answered in the spirit of the question and syllabus (i.e. a new building or even current one being changed) came up with worthwhile gains/losses though descriptions were often weak and rarely developed. Those that saw a change as the use of the Internet, a fall in price of goods, use of credit cards, bar codes or some other miniscule difference could not gain many marks. Some good examples seen were local examples of developments in Harare and some other African cities. Poorest were for London and New York where candidates just described what was there now.

Question 3

A small number of candidates attempted this question. Those candidates choosing this question generally knew about the topic(s) but some chose it inadvisedly and tended to include irrelevant material in their answers.

- (a) (i) Most candidates correctly identified the photograph taken closest to the source.
 - (ii) Most candidates accurately described the differences in the river characteristics.
 - (iii) Most candidates suggested either B or D, but the development of the explanation was often weak and usually only related to the speed of flow and/or gradient.
 - (iv) Many candidates understood these terms well and were able to score full marks.

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- (b) (i) Many candidates did not understand what a cross section diagram was and some labelled features on the map. Where they did comprehend the question many scored two marks by identifying the river cliff and slip off slope but fewer candidates correctly showed differences in the depth of water. In order to do this the cross section shown needed to be labelled with the points P and Q, which some candidates did not include.
 - (ii) Whilst most candidates expressed some idea of the oxbow lake being created by the cutting of the neck of the meander/the river flowing straight many answers lacked accuracy in describing the processes which resulted in that occurring. Higher scoring answers knew the sequence of processes and scored full marks.
- Candidates were more confident when dealing with human aspects. Developed ideas often referred to agriculture, settlements, fishing or other employment. Weaker answers focused only on negative impacts. Many good answers used Bangladesh or the Nile or Ganges as a case study, although most candidates got no further than good crops on alluvial soil, and damage by flooding. There were a minority of excellent case studies which were more local to candidates, some containing specific details referring to crocodiles, snakes and other water-dwelling creatures, as well as the risks of malaria and water-borne disease.

Question 4

This was the least popular question. Whilst high quality responses were seen to all parts many other candidates wrote weak or irrelevant answers.

- (a) (i) Virtually all candidates identified chemical weathering as the correct answer.
 - (ii) Most candidates gave the correct figures; a small minority did not include the units.
 - (iii) Many candidates showed good understanding of the process and scored maximum marks for the ideas of expansion, contraction and stress in the outer layers.
 - (iv) Whilst candidates could identify different types of weathering, they usually did not provide much explanation of why warm, wet conditions encouraged these types of weathering.
- (b) (i) Candidates usually identified appropriate features from the photograph and many scored full marks. Better answers included detailed description of the rocks for which they often scored three marks.
 - (ii) Many candidates failed to make the link between freeze-thaw weathering and Photograph E. Perhaps they had not read the stem to (b) which referred to a mountain area in a temperate climate. Then they focused their answer on exfoliation and scored zero. Many candidates who did make the link to freeze-thaw weathering explained the process in detail and many included diagrams in their explanation.
- (c) Many candidates wrote about drought and scored within Level 2. Frequently their answers focussed on the difficulty of obtaining food supplies and its effects. Other common ideas were the effects on crops and livestock. Most of these answers gave an appropriate example but few included place specific detail. Weaker answer focused on the causes of drought or more generic desertification themes. Candidates who chose a tropical storm usually focused on the effects of flooding.

Question 5

This question was popular with answers ranging from the very weak through to those of the highest quality.

- (a) (i) Many candidates misinterpreted the pie charts and gave the answer 15%, which was incorrect.
 - (ii) Many candidates failed to gain any marks with vague or inaccurate responses, such as references to scenery and the quality of services and vague phrases like 'lots of things to do'.
 - (iii) Many candidates scored three marks. The main error was to ignore `natural` and suggest other attractions.

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- (iv) Some candidates did not understand the term 'built environment'. Where candidates did score well it was either by listing different examples of built attractions or explaining their attraction in a generic way.
- (b) (i) The most common answers referred to difficulties in the road/ railway infrastructure, the lack of hotels and the water supply system or sewage system. Weaker candidates did not use accurate enough language to earn the credit and suggested difficulties such as poor transport and wet climate.
 - (ii) Many candidates scored well. Some answers were limited to three or four marks because they did not meet the required balance of benefits and disadvantages. The most common benefits suggested were economic growth, the provision of jobs and infrastructure improvement. Disadvantages were not done quite so well but the adverse effects on culture, noise pollution, traffic congestion and the effects of domination by foreign firms were suggested in high scoring answers.
- (c) Too many candidates missed the emphasis of the effect of tourism on the natural environment and gave detailed descriptions of the effect of tourism on an area or country or on people which had already been covered in earlier questions. The most common developed impacts were the loss of habitats which threatened species, and the effects of litter on wild animals. Better answers were characterised by a focus on a specific area such as the Great Barrier Reef whilst weaker answers were less focused on a whole country such as Kenya.

Question 6

This was another popular question which differentiated well. There were many impressive answers, including the case study, however some candidates continue to struggle with their understanding of global warming.

- (a) (i) Most candidates gave an appropriate explanation, if not always well expressed.
 - (ii) Many candidates failed to include reference to pollution of the air and therefore failed to score for their suggestion about agriculture as their references to pesticides or herbicides did not state that it was the spraying that would cause air pollution. Answers were usually more specific about fumes or exhaust emissions from transport.
 - (iii) The links between air pollution and breathing difficulties and water pollution and disease such as cholera were the most common valid answers. However some candidates did not link a type of pollution with a problem faced by people (asthma from air pollution, lack of visibility from smog, ear problems from noise etc.). The weakest candidates just listed types of pollution.
- **(b) (i)** Generally candidates used the information from the article well. A few ignored the resource and gave general concerns for no credit.
 - (ii) More able candidates correctly identified that carbon dioxide is a greenhouse gas and went to on to explain the need for its reduction. Many answers were a reverse of the required answer but were credited for the ideas about the build up of gases. Many weaker candidates exhibited the usual confusion with the hole in the ozone layer and even acid rain.
 - (iii) There were many excellent answers with high degrees of detail often accompanied with explanations as to how carbon dioxide levels would be reduced. The use of alternative fuels, afforestation and the importance of more public transport were the most common ideas. Some candidates referred to catalytic convertors (which increase CO₂) and scrubbers for power station/factory emissions (which reduce sulphur dioxide), whilst a small minority described strategies which are not yet, or perhaps never will be, in use, e.g. water powered cars and methods of carbon sequestration. Some answers could not be credited because the strategies described were too extreme.

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This was quite well done though causes and effects were generally combined in statements rather than developed separately which would have achieved higher credit. Simple responses such as litter/sewage/industrial waste were seen but so were many that gave full details of eutrophication and of named factories that pollute rivers in a variety of ways. Good descriptions of agricultural fertilizers affecting run-off into rivers and named diseases caused by water contamination were seen. Popular examples included the Ganges and the Nile though many different examples were used. Weaker candidates only suggested several simple statements about different causes or effects, without including the development which would have achieved higher marks.

Paper 0460/13 Paper 13

General Comments:

The examination was considered appropriate for the ability range of candidates and a high level of differentiation was achieved throughout. Many excellent responses to all questions (whichever were opted for) were seen and candidates were able to show their level of ability and gain A*/A grades.

The more structured questions worth fewer marks allowed all candidates to achieve positively. Also, questions referring to source materials provided all candidates with positive opportunities to gain marks.

Inevitably there were candidates who performed poorly in the examination, this may be due to a variety of factors i.e. they were poorly prepared for this type of examination, lack of understanding or linguistic difficulties in understanding the question fully in another language. However, it has been noted that the standard and quality of work seen from candidates is continuing to improve overall.

Many candidates use geographical terminology appropriately and confidently and are able to recall case studies in detail, particularly when they are case studies local to them or from within their own country. Nevertheless there are still many candidates who fail to give place specific information in order to gain the full Level 3 marks (having given some very detailed level 2 responses). Weaker candidates tend to list their responses in bullet point form and as a result do not gain more than Level 1.

The following detailed comments for individual questions will focus upon candidates' strengths and weaknesses and are intended to help centres better prepare their candidates for future examinations.

The following items of general advice, which have been provided previously in this report, need to be given to future candidates who should:

- make the choice of questions with care, ensuring that for each question they choose they have a named case study about which they can write in detail and with confidence.
- answer the three chosen questions in order, starting with the one with which they are the most confident, and finishing with the one with which they are least confident (in case they run out of time).
- read the entire question first before answering any part, in order to decide which section requires which information to avoid repetition of answers.
- highlight the command words and possibly other key words so that answers are always relevant to the question.
- use the mark allocations in brackets as a guide to the amount of detail or number of responses required, not devoting too much time to those questions worth few marks, but ensuring that those worth more marks are answered in sufficient detail.
- consider carefully their answers to the case studies and ensure that the focus of each response is
 correct, rather than including all facts about the chosen topic or area, developing each point fully
 rather than writing extensive lists of simple, basic points. It is better to fully develop three ideas
 rather than write extensive lists consisting of numerous simple points.
- study the resources such as maps, graphs, diagrams and extracts carefully, using appropriate facts and statistics derived from resources to back up an answer and interpreting them by making appropriate comments, rather than just copying parts of them.

Comments on specific questions:

Question 1

This question was by far the most popular choice by candidates with approximately three quarters choosing this question. It was well answered in the majority of cases.

- (a) (i) The majority of candidates correctly identified that the number of deaths in Denmark in 1970 was 71 000 and gained the mark.
 - (ii) A Most candidates were able to correctly identify a year where there were more births than deaths choosing from 1970 1980 and 1988 2005.
 - B Likewise, most candidates were able to correctly identify a year were there were more emigrants than immigrants choosing from 1973 1976 and 1981/1982.
 - (iii) Many candidates made an impressive attempt at this question with accurate calculations. A few candidates just gave the figures and calculations for natural increase or just the migration figure and not both. Also a few candidates' added figures together rather than subtracting them. The majority of candidates were able to read off the figures accurately within the tolerance allowed and thus gained full three marks as follows: births minus deaths 64 000 to 65 000 minus 54 000 to 55 000 minus immigration minus emigration 52 000 to 53 000 minus 45 000 to 46 000 giving an answer of 15 000 to 19 000.
 - (iv) Many excellent responses were seen here with the majority of candidates scoring three or four marks. They were able to identify and describe trends and/or refer accurately to the statistics. A few candidates made references to birth and death rates, which did not score any marks. Most candidates were able to show that migration fluctuates, that there was an increase or decrease and an appropriate year or range given, peak and/or trough years were correctly identified and the overall trend that there was more immigration than emigration with an exception of between 1974 and 1976.
 - (b)(i) There was a wider variety of responses here with some candidates easily gaining the full three marks by naming examples such as Vietnam to Australia, Mexico to USA, China to USA, India to UK. Some candidates gave examples of either MEDC's to another MEDC or LEDC's to another LEDC. Also some candidates gave examples of types of migration such as forced, voluntary or economic.
 - (ii) Many good answers were seen gaining marks for pull factors such as employment opportunities, higher pay, better education or healthcare, better quality of life, good hygiene or sanitation to name a few. Many candidates developed their answer and gave examples such as better healthcare with more treatments for diseases available. Some candidates focused on push factors rather than pull factors and thus lost marks however, some of those candidates also gave opposite statements for pull factors so managed to gain the marks anyway.
 - (c) The majority of candidates scored marks up to Level 2 standard but fewer gained Level 3. There were many valid generic ideas (which could be true of many case studies) but very few gave place specific detail. Many candidates chose China as a case study which was unfortunate as the responses were more pertinent to countries such as India than China. Also candidates included reference to the one child policy which was not relevant. However, many candidates were able to score four or five marks for ideas such as: 'there are high birth rates so that children can help to work on farms' or 'birth rates are high so that children can look after their parents in their old age'.

Question 2

This was the third most popular choice made by candidates and was selected by approximately half of all candidates. It was generally well answered.

- (a) (i) Most candidates scored the mark for correctly stating the buildings are scattered or spread out. Some phraseology used was unclear.
 - (ii) The majority of candidates gained two marks for correctly identifying that B is nucleated and C is linear.

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- (iii) The majority of candidates were able to gain at least two marks for correctly identifying that B has grown around the crossroads and C has developed along the road. Many candidates also identified that C is restricted by the river on one side and the steep slopes on the other. Some also recognised that B is flat all around and thus scored full three marks.
- (iv) Some candidates focused all their response around a single issue such as transport, which limited the number of marks gained. However, many excellent full mark responses were seen. Candidates referred to accessibility, advantages of being close to a river for food supply or water supply, near to a bridge and flat land to allow development without restrictions to growth.
- (b) (i) More varied responses were seen to this question. Many candidates were able to describe the distribution referring to ideas such as settlements are usually on lower land, near to roads/tracks or footpaths and avoids forest areas. Some candidates did not describe the distribution but rather listed features from the map without referring to the distribution of settlements.
 - (ii) Some candidates repeated their responses from the previous question rather than giving reasons. However, the majority of candidates gave excellent answers referring to ideas such as accessibility, water supply, irrigation, flat land for farming or fertile land to name a few.
- (c) A wide range of examples were seen from candidates. Many selected two large cities to compare despite the question asking for two settlements of different population size. Responses which compared a large city with a smaller town or village from the same country and which was known or familiar to the candidate scored the highest marks. Many responses contained a lot of place specific detail yet they could not access the Level 3 marks as there was insufficient detail at Level 2. Candidates who made direct comparisons between services scored the highest marks e.g. Settlement A only has a primary school whereas Settlement B has primary and secondary schools with a university or college. Some candidates went into more detail on one settlement and didn't compare with the second settlement.

Question 3

This was a less popular choice with candidates and was the fourth most popular question selected overall. Responses seen were varied as shown below.

- (a) (i) Virtually all candidates correctly identified 'C' as the photograph showing a coastal landform formed by erosion.
 - (ii) The vast majority of candidates were able to correctly match the landform with the corresponding photograph as follows: beach is Photograph B, Headland is Photograph c, marsh is Photograph D an sand dunes is Photograph A. Therefore most candidates scored both marks.
 - (iii) This question differentiated well as some candidates were not able to score any marks here as they referred to ideas such as 'next to the sea' or 'lots of rain' or 'muddy' all of which did not gain any credit. Candidates who were able to gain marks mostly did so for responses most commonly referring to the 'sheltered' idea and 'slow flowing water'. The few candidates who scored full marks also referred to 'flat land' and 'large amounts of sediment'.
 - (iv) This question was generally well answered with the majority of candidates scoring at least three out of the four marks available. Candidates gained marks for ideas like: 'wind blows sand and deposits it around an obstacle which over time builds up'. Only a few candidates added that Marram grass then colonises the dunes. A few candidates referred to the waves building up the dunes or described the process of longshore drift, which did not score any marks.
- (b) (i) Most candidates were able to gain marks for 'constructive waves having more swash and destructive waves having more backwash' and 'constructive waves deposit material whereas destructive waves erode'. However, this question also differentiated well as some candidates were not able to describe the differences between constructive and destructive waves even though there is a resource to help them.

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- (ii) This question also differentiated well as most candidates could explain at least one process with some candidates explaining two or more. The most common responses referred to corrasion having a sand paper effect on the cliff and hydraulic action creating pressure as they break against the cliff and trapping air in the cracks in the rock. A few candidates referred to acid rain, which did not gain any credit.
- (c) Mixed responses were seen to this question thus differentiating well between candidates. The hazards most commonly selected by candidates were coastal erosion and tropical storms with a wide variety of locations given. The most popular examples were Hurricane Katrina or Bangladesh, which usually gained high marks as they often contained place specific information along with detailed Level 2 statements. For example 'people had to relocate as their homes were flooded or damaged' 'flooded roads made it difficult for people to escape or help to get in' these developed statements along with numbers of deaths or injuries or dates meant that candidates could gain Level 3 marks.

Question 4

This was the least (6th) popular choice made by candidates. A variety of responses were seen and the question overall differentiated well.

- (a) (i) The majority of candidates gained the mark for correctly estimating the figure for the annual average precipitation at Agades from within the range allowed; 51 199.
 - (ii) Many varied responses were seen to this question and many candidates correctly made reference to low latitude/near to the equator idea or sun is directly overhead or lack of cloud. Some candidates gave responses that were more applicable to the following question and therefore did not gain any marks in some instances.
 - (iii) Candidates tended to answer this question better than the previous one and some excellent responses were seen. Explanations given as to why rainfall is low in areas such as Agades referred to the distance from the sea or winds blowing over land and high pressure dominating were the most common correct answers.
- (b) (i) Most candidates were able to gain 2 or 3 marks in response to this question most commonly stating that there is an uneven distribution, rain falls between April and September and August being the wettest month. Some candidates were too specific quoting figures for individual years and months without interpreting them for example August in year 2 had 67mm.
 - (ii) This question differentiated well between candidates as a wide range of responses were seen. Many responses showed a good understanding as to how the rainfall distribution may affect the people living in and around Agades including ideas like: not enough water for domestic use; they may suffer from dehydration; they will have to walk long distances to collect water; animals will die; less food supply' to name a few.
 - (iii) This question also differentiated well between candidates with many excellent responses being seen showing good knowledge and understanding of desertification. Many candidates were able to develop their ideas to show why desertification occurs for example: there is drought coupled with deforestation as trees are needed for firewood, which leads to a loss of nutrients in the soil. Overgrazing of animals and using land for agriculture in marginal areas further reduces soil fertility and as the soil is exposed the sun bakes the soil hard. Some candidates did not understand why desertification occurs and struggled to gain any marks as they simply referred to the weather being dry or trees dying which did not address the question.
- The majority of candidates was able to name a desert area and were able to describe desert the features of the natural vegetation such as long roots or wide spreading roots, sparse vegetation, spiky leaves being the most commonly referred to. Some candidates were also able to explain how the vegetation can survive in the desert for example: Cacti have long roots to search for water beneath the surface, spiky leaves reduce water loss etc. A few candidates were able to achieve Level 3 full marks for also correctly naming examples of desert plants (not just cactus), with the relevant detailed Level 2 responses.

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Question 5.

This question was the second most popular choice made by candidates and it also differentiated well.

- (a) (i) The vast majority of candidates correctly named a country where population growth is greater than the increase in food production with the most common response being Madagascar.
 - (ii) This question was also well answered with the most common natural factors being identified for causing food shortages as 'drought, flooding, hurricanes or infertile soils'. A few candidates simply stated natural hazards or disasters without stating what it was.
 - (iii) Some very perceptive responses were seen here as to how economic and political factors can cause food shortages with responses referring to ideas like: poverty and not being able to afford food; war and corruption. The majority of candidates gained at least one or two marks.
 - (iv) This question differentiated well. Many candidates were able to describe the effects of food shortages in LEDC's by referring to starvation or death and malnutrition gaining at least one or two marks. Some candidates were then able to develop their ideas thinking of the further implications of this and then named deficiency disease such as Marasmus or that people became too weak to work or couldn't plant crops' thereby gaining the full four marks.
- (b) (i) The majority of candidates recognised the downward trend in employment in agriculture for one mark. Most candidates were also able to gain a second mark for use of data in their response for example 'halved between 1985 and 2010'. Fewer candidates were able to gain the third mark for referring to trends between different years. Some candidates also took figures from the wrong side of the graph.
 - (ii) This question differentiated well as many varied responses were seen. Some candidates were able to develop their ideas and gain full marks. The most common responses to show why the value of agricultural output per worker had increased referred to ideas like: increased mechanization, with greater use of tractors, more use of fertilizers therefore adding nutrients to the soil, more irrigation so that crops do not dry out which increases yields. Many candidates gained fewer marks as they tended to focus upon the decreasing workforce without explaining that despite this there were increases in output for the reasons outlined above.
- (c) A small number of very good developed answers were seen to this question but the majority of candidates were able to gain either top Level 1 or bottom Level 2 marks. If candidates relied solely upon systems diagrams they were unlikely to gain marks beyond Level 1. Some candidates were able to name a relevant farming area. Most candidates listed inputs, processes and outputs of the farming system chosen without any development and therefore gained Level 1 marks for ideas such as 'soil, harvesting and crops'. Some candidates developed their ideas further by explaining that 'harvesting was done using a combine harvester' very few responses contained relevant place specific detail to gain full Level 3 marks.

Question 6.

This question was not very popular by candidates and was the fifth most popular choice.

- (a) (i) The vast majority of candidates correctly identified 'Nepal' as the country that uses the largest percentage of fuelwood to supply energy.
- (ii) Most candidates gained the full two marks for providing two different uses of fuelwood in LEDC's most commonly for 'cooking and heating'. Some candidates did not gain any marks as they wrote about the use of 'wood' generally rather than the use of 'fuelwood'.
- (iii) A. This question differentiated well with some perceptive responses. Many candidates referred to toxic fumes causing problems to the people who live in LEDC's whilst more perceptive candidates referred to ideas such as travelling long distances to collect fuelwood and the possibility of fire or named diseases through breathing in toxic fumes. Some candidates also included reference to the natural environment, which was not required here.
 - B. This section was also mostly well answered with the majority of candidates referring to the impacts on the local natural environment such as 'increased carbon dioxide, deforestation and soil

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erosion. Some candidates as per part A above wrongly referred to impacts on local people, which was not required in this section.

- (b) (i) Many good responses were seen to this question with many candidates scoring full three marks. Most candidates either used the resource well or understood the idea of heat being trapped in the atmosphere. Candidates gained marks by describing that 'heat from the sun passes through the atmosphere and bounces back from the surface and is then trapped by a layer of greenhouse gases. There were very few responses that made irrelevant references to ozone depletion or acid rain.
 - (ii) The majority of candidates were able to score highly on this question. Most candidates were able to give some developed ideas as to why people are concerned about global warming. Candidates most commonly gained marks for explaining that 'rising sea levels due to melting ice in the polar regions is likely to cause flooding in lowland coastal areas'. Some candidates listed simple ideas such as 'ice caps melting, animals will die out such as polar bears, more hurricanes' to name a few. Most candidates were able to score at least three marks here.
- (c) This question differentiated well as most candidates were able to gain some marks with some excellent responses being seen. Many candidates were able to identify a country or area and many candidates scored Level 1 marks for providing simple statements such as 'building reservoirs or dams' to show how water supplies are being developed in that area. More developed responses for Level two included ideas such as 'building reservoirs in areas where there is high rainfall' or 'importing water supplies from neighbouring countries via underground pipelines'. Some candidates also included place specific information such as names of damns or rivers, which gave them access to the full Level 3 marks, provided they also included the relevant place specific detail.

Paper 0460/21 Paper 21

General comments

A broad range of responses to this paper were seen by examiners.

Good answers were focused on the question asked and often were concise, making excellent use of the resources provided in the paper. Weaker candidates should remember that this paper tests geographical skills and that the resources provided are there to be referred to in composing answers. An example of this was in the photograph questions where good candidates described what they could see in the photographs but weaker candidates simply wrote about background theory. Candidates should also make sure that they understand clearly the different meanings of the words *describe* and *explain* when used in in questions and what is required.

In general, candidates answered the questions within the spaces provided and avoided the use of additional sheets. Candidates were able to complete the paper in the allotted time.

Comments on specific questions

Question 1

- (a) Almost all candidates scored full marks in this section.
- (b) In **part (i)**, the majority of candidates scored 1 out of 2 marks and careful reading of the map key was vital here. Commonly, *trees and scrub* and on occasions *woodland* were given as responses yet these do not appear along the banks of the river at any point within the area of the map extract given. In **part (ii)**, most candidates scored well and there were only a small number of errors, many of which concerned the direction of flow of the river.
- (c) The grid reference was correct in about half of the scripts. Fewer candidates were able to calculate the distance in **part (ii)**. The preferred technique for distance measurements is described on page 25 of the current syllabus. Compass bearings were generally known better.
- (d) There were some good responses in this section, although candidates should try to express their ideas concisely. Most candidates identified the sea/coastal location as an advantage but many thought that this was for water for use in industry or for dumping waste in rather than for sea transport and trade. The presence of flat land, roads, railways and the airstrip were frequently correctly included.
- (e) Many candidates scored 1 mark for the presence of marsh/swamp/mangrove but did not score the second mark by explaining why this was a problem. Candidates often noted the presence of industry but did not always link this to visual, noise, sea or air pollution.

Question 2

- (a) Almost all candidates gave the correct answer (10%) and most recognised that there was no clear pattern shown in the graph.
- (b) Some candidates followed the instruction carefully and used their own words in this section as required, whilst others simply copied down key words from the resource provided. Candidates should try not to copy exactly from the resource in a question like this. Phrases like *better facilities* and *new opportunities* needed to be explained with an example of what these might include.

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Question 3

- Whilst many candidates seemed to understand how a flooded area could fill the valley shown by contours on the map, few managed to shade the maximum area correctly. Commonly, the valley was shaded up to 240 or 250 metres but it was necessary to shade to the ends of the dam at 255 m (approximately) and follow this contour round. A large number of candidates shaded land below the dam and some shaded in a random way without paying attention to the contour lines. Responses for **part (ii)** were varied and only a small percentage of answers were correct. This question was a good discriminator in testing understanding of relief on maps.
- (b) This question required candidates to link the weathering processes of carbonation, freeze-thaw and oxidation to the building stones given in the table. Very few candidates were able to do this well and score high marks. Many candidates did not know the difference between weathering and erosion as most errors were related to this issue.

Question 4

- (a) Many candidates were able to answer this question correctly, although a variety of spellings were allowed. A surprisingly large number of candidates left this section blank.
- (b) There were some good answers in this section and especially where candidates concentrated on what could be clearly seen at the front of the photograph. Some candidates were unclear about what to include in each paragraph (relief, agriculture and vegetation) but as marks were transferable between paragraphs, they were still able to achieve full marks. Candidates gave the full range of possible answers.

Question 5

- (a) For many candidates, this proved to be the most challenging question on the paper. It was necessary to study the resource in some detail to be clear what it was showing. The best answers were short and concise. In part (i) for example, when there is a low amount of vegetation or crop cover there is more erosion would score one mark, then as the soil is exposed to the force of the water/wind' would score a second mark. Many candidates scored one mark, usually for the description. Part (ii) was usually answered more carefully, but in part (iii), some candidates did not appreciate that steep slopes would give rise to soil erosion only by running water.
- (b) Most candidates recognised that wind was the more important cause of soil erosion in Australia and were able to relate to the information shown in Fig 8, stating that when rainfall was higher, erosion was lower. The better answers quoted data for specific years.

Question 6

- (a) In spite of the instruction that figures were not needed, the majority of candidates concentrated on quoting them in their answers. Many candidates described the changes from one month to the next throughout the year which gained little credit. Marks were low in this section and commonly candidates scored one mark for identifying the dry/arid/desert characteristic and some spotted that some months had no rain at all. In describing climate, the better answers identified the other main features including hot summers, mild winters, more rainfall in summer and the large annual temperature range. It was not appropriate to describe the features of the vegetation on Photograph D in this section.
- (b) There were some good responses to this question and the best answers concentrated on what they could see in the photograph and not on what they knew in theory about desert vegetation. Marks could be quickly gained by referring to the height, colour and nature of the plants shown.

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Paper 0460/22 Paper 22

General comments

There was an excellent response to the paper with good answers received for all of the questions. None of the questions were particularly easy and it is to the credit of the candidates that they rose to the challenge. Generally speaking, candidates understood the questions and there were relatively few occasions where candidates were let down by poor technique. There were many strengths in the scripts and just a few areas of weakness which are referred to later in this report.

Comments on specific questions

Question 1

- (a) Almost all candidates were able to identify the ruins at A, the marsh or swamp at D and give the correct height for E. The road at B was a Main A road (*A road* was acceptable) but candidates sometimes identified the road as simply a main road which was not sufficiently clear as there were also Main B roads on the map extract. The features at C were pits but Examiners also accepted answers where candidates tried to identify the symbol, therefore quarries, rocks and cliffs were also marked as correct.
- (b) Answers were generally good with the most common responses including coral, beach, bays and headlands, river mouths and scrub. It was encouraging that it was only a minority of candidates who quoted human features of the coastline, which were not given credit. There were also small numbers of candidates who quoted inland features rather than coastal features.
- (c) Most candidates were able to score full marks on this part of the question, usually quoting the reservoir, channels, rivers and water tanks. A small minority said that the rivers flowed inland from the sea, an error which also occurred in **part** (b).
- This part of the syllabus has proved problematic in the past. Some candidates still find distances and gradients difficult and some did not respond to the question. Nevertheless, many candidates were able to score full marks and the overall response was encouraging. Candidates could usually give the correct difference in height of the bench marks in **part (i)**. The correct response was 50.83 metres but Examiners made some allowances in the second decimal point because of the small size of the print on the map extract. Candidates did less well on the distance measurement in **part (ii)**, the correct answer being 3670 metres. The preferred technique for distance measurements is described on page 25 of the current syllabus. **Part (iii)** proved the most difficult. The correct answer was 1 in 72 (1 in 71 and 1 in 73 were also accepted) but where candidates had made errors in **parts (i)** and (ii) their figures were used in the gradient calculation so that they were not penalised twice for the same error.
- (e) Candidates often noted the linear or dispersed layout for different parts of the settlement. Credit was also given for noting the variable size of the buildings and the buildings under construction. In part (ii), the services which were given credit were the School, village hall, community centre, hotel, public beach, water tank, youth camp, and fish landing station. Four of these were required for full marks.

Question 2

- (a) Most candidates correctly identified Philippines or West Indies, or Japan in **part** (i), Europe in **part** (ii) and Australasia in **part** (iii).
- (b) Candidates usually noted the coastal nature of the areas of high population density. Others also noted that they were scattered, in the south, south west and south east. A significant number of candidates said that the areas were "below the Tropic of Capricorn". This is geographically incorrect and was not given credit.
- One mark was usually scored for noting that cold temperatures were a reason for low population density north of the Arctic Circle. A second mark could have been scored for suggesting snow, ice or permafrost, dark winters, difficult agriculture or lack of roads.

Question 3

- (a) The correct range of heights for the coffee was from 500 metres to 2000 metres (Examiners accepted some tolerance). A surprising number of candidates confused the labelling on Fig. 5 and gave the lower height as 2000 metres and the upper height as 2500 metres. **Part (ii)** was generally well-answered with candidates noting that the coffee was grown on higher land and steeper land, although some candidates only mentioned one of these points. Credit was also given for noting that the coffee was grown on a more irregular slope and at a wider range of heights.
- **(b)** The majority of candidates stated that coffee requires the coolest temperatures.
- (c) The vast majority of candidates suggested that the ash from the volcano, or volcanic material, would add minerals or fertility to the soil.
- (d) This part of the question proved to be more challenging. Few candidates suggested that the crop could be irrigated from rain that fell on the mountains and would flow downhill, or that the gentle slopes would aid the supply. A large number of candidates thought that irrigation water could be drawn from the sea, a misconception that also occurred in **Question 1**. In **part (ii)**, few candidates suggested that the source of the dry weather could be the rainshadow or offshore winds, although in **part (iii)** more were able to suggest that the port would help to distribute the crop.

Question 4

- (a) This was very well-answered. Candidates almost always drew two diverging arrows on Fig. 6 and named the boundary correctly.
- (b) The response was rather mixed. The most frequent correct responses described Africa splitting, the Rift Valley getting wider and an ocean developing. Incorrect responses generally involved the Red Sea getting wider. The evidence from Fig. 7 for volcanic activity was usually given as molten rock rising.
- (c) This was very well-answered. Most candidates drew a cross within the Rift Valley and at the correct distance from Addis Ababa. Some crosses were drawn north west of Addis Ababa rather than north east. In **part (ii)**, most candidates linked the location of the earthquake to the position of the new plate boundary.

Question 5

- (a) For many candidates, this proved to be the most challenging question on the paper. The clouds were: part (i) cumulonimbus, part (ii) cumulus and part (iii) cirrus. The most common errors were to identify stratus for part (i) or part (ii).
- (b) Possible correct descriptions of the large cloud in Photograph A were white, darker base, dense or thick, great vertical extent (or from low to high), anvil or wide top, narrow middle, flat top and flat base. The most common errors were when candidates tried to fit textbook descriptions of clouds to the photograph, whether they were applicable or not.

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(c) The correct reasons for the clouds were: Photograph A – heated air rising, and Photograph B – air rising as it crosses over higher ground at the coastline. The response of candidates was very variable.

Question 6

- (a) In **part** (i) almost all candidates correctly answered *gas*. In **part** (ii) most correctly answered *11*, although a significant number incorrectly answered *10*. **Part** (iii) proved more challenging and a large number of candidates thought that the electricity output was much larger than the fuel used to produce it. One mark could be gained for noting that electricity output was less than the fuel used to produce it and second mark for some quantification of the difference.
- (b) In part (i) almost all candidates correctly identified the hydro-electric power station. In part (ii) many failed to realise that the question was referring to the site of the power station shown on Fig. 10 and wrote about general advantages of hydroelectricity. The natural lakes to supply the water and the height difference to give the head of water were not always noted. The same errors often occurred in part (iii) where candidates failed to concentrate on the area of outstanding natural beauty. A wide range of suggestions why permission was given were credited. These included; it is underground, there would be little/no visual pollution, no atmospheric pollution, (ozone layer, greenhouse effect and global warming were not given credit), no noise pollution, no water pollution, it would produce cheap electricity, there might be a high demand for electricity, or it could be a tourist attraction.

Paper 0460/23 Paper 23

General comments

Candidates responded well to this paper. Each question contained a good balance of easier and more difficult parts and most candidates attempted an answer for every part. All candidates appear to have had sufficient time to complete the paper.

Candidates could improve by giving careful attention to their choice of words when asked to write at length. The comments below for **Question 1(e)**, **Question 3(b)** and **Question 6(b)** illustrate this.

Comments on specific questions

Question 1

- Almost all candidates correctly identified river A (River Fay'd Herbe) and building B (CWA Filter). Most chose *tea* for the land use at C, although some were looking to copy a name from the map, rather than refer to the key, and consequently answered *tea factory*, which was outside the area shown on Fig. 1. The type of road at D was *other*, as given in the key. A number of candidates instead opted for *track*, which has a similar symbol. E was an area of riverine trees and most candidates had found the symbol in the key. Some wrote *line of trees, riverine trees*, rather than selecting the appropriate part of the key entry. A few put *marsh or swamp*.
- (b) This section was done well. Almost all candidates spotted the coral reef, the sand or mud beach and the filaos vegetation. Many also noted the rock or cliff at Trou d'Esny, the scattered trees or scrub, and the river mouths. Bay and headland were also acceptable responses. A few candidates did write about human features, rather than physical, though they usually noted the beach. Some candidates added mention of human features to the end of a good description of physical features. A few described inland areas rather than the coastline.
- Candidates seemed to find interpretation of this question difficult, with many describing other features of the area rather than the drainage. Thus, many included comments on relief and vegetation which left less space for relevant points, such as mention of the waterfall, the lake, the south-westerly flowing streams, with their meanders and tributaries or a comment on the drainage density, which was higher in the north or south and lower in the middle of the area. A number of candidates annotated Fig. 2 as part of their answer, in which case the annotations were marked in the same way as the written response.
- (d) The bench mark by bridge Y is shown on the map as 52.82 m, so 53 m to the nearest whole number, giving a height difference of 13 m. It was also acceptable to round down, giving 12 m and, if the decimal places had been retained, 12.82 m was also an accepted answer. Lots of candidates had one of these possibilities. The most common mistake was to round the bench mark to the nearest 10 m i.e. 50 m, giving a difference of 10 m.

For the measurement from X to Y, it was necessary to refer to the definitions of X and Y given in Table 1, rather than simply measuring between the letters on the map in Fig. 3. From the bridge to the road junction was 1750 m, leading to an approximate gradient of 1 in 135 (part (iii)). This was actually the closest gradient for all of the given distances, so an incorrect response in part (ii) did not affect the outcome of part (iii). There was often evidence that candidates had changed their minds in parts (ii) or (iii).

(e) Here it was necessary to examine the map carefully and go beyond statements such as its flat, there are main roads, food and water from the river. Careful scrutiny of the map should reveal a few contour lines indicating a gentle slope and that the site is separated from the river by quite a difference in height, making it a dry point. Few candidates referred to the road junction. Candidates more commonly received marks for mention of employment opportunities, such as in the sugar plantation, sugar factory or mill, and available services.

Question 2

- (a) Photograph A shows the commercial area of the city and almost all candidates had correctly identified this. A few selected high density residential instead but they were still able to gain marks in part (ii) by pointing out the tall buildings with their high density. Many candidates also mentioned the dock areas, though it was necessary to be clear about placement such as tall buildings behind the dock area or relate the piers to the shapes representing them on Fig. 4, since a dock by itself does not indicate a CBD.
- (b) The best answers in **part (i)** described the natural harbour sheltered behind the island (or headland or peninsula). Some noted the large area available and the long waterfront. Some candidates focused on the site and growth of the city, without the emphasis on the seaport. The junction of the roads was often the only valid point from this.
 - In **part (ii)** candidates noted the central location, proximity to the CBD and road access. Large area of land and open space for expansion were also acceptable responses. Some candidates had noticed the large amount of military land use so considered this to be a safe location for an airport.

In part (iii) it was necessary to link the problem of noise to the proximity of the residential areas.

Question 3

(a) Most candidates noted that the general trend in Indian textile production was an increase, though some included unnecessary detail such as the decrease in 2008 or the relative changes in cotton textiles compared to other textiles.

In 2008 cotton textiles made up 49% of total textile production. This proportion could be expressed as a fraction, a percentage or even "about half". The most common error here was to give either the total production or the total cotton production but not express one as a proportion of the other.

Cotton textiles decreased in 2003. Most candidates had the correct response. Some had put 2008 - the year of overall decrease.

The highest production of cotton textiles was 27 000 million square metres (2007/8) and again most candidates had the correct answer.

(b) In this section many candidates took a systematic approach, matching the four points in Fig. 6 with information given in Fig. 7. For example "A supply of cotton from the cotton fields on the Deccan Plateau, fast flowing rivers provide hydroelectric power to work the machines, south-west winds from the ocean give a humid atmosphere, and a large labour force in Mumbai." scored full marks. Other acceptable answers included mention of Mumbai as a port for exports and also its large market. Some candidates wrote irrelevantly about advantages for cotton growing.

Question 4

- (a) Almost all candidates noted 1400 as the highest number of deaths recorded on Fig. 8 and also successfully added the plot to the graph. A small number appeared to have not noticed this second part. Most candidates were also able to explain that the other earthquakes had not been plotted on Fig. 8 since they did not fit on the existing scale. The graph showed no relationship.
- (b) Candidates read the highest magnitude earthquake on Fig. 9 (7.2) and noted only one earthquake at 6.8. In part (iii) 1930/31 and 1952/53 were accepted. The most common incorrect answer was to use the decade labels from the x-axis. (1930 to 1950). Almost all candidates had correctly indicated 1900 1910 in part (iv).

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Question 5

- There were some good answers for this section. Candidates described the dense, green canopy supported by thin, straight trunks and many wrote about the various layers and variety of species. Most wrote that the trees were tall, though it was necessary to elaborate on this point such as "the trees further back are tall". Some candidates did attempt their description from their knowledge rather than from the photograph and many were tempted to include explanations rather than using all the writing space for description. Nevertheless answers were generally good.
- (b) In part (i) candidates were asked to estimate the mean annual temperature. Values from 25.5°C to 26.5°C were accepted and many had opted for 26°C, though a sizeable proportion of candidates had obviously calculated the actual value. Rainfall exceeds evaporation in the driest month by 50 mm and most candidates had calculated this correctly. Many then used this information in part (iii), stating that rainfall always exceeds evaporation. For two marks here it was necessary to comment on both aspects of climate: rainfall and temperature, and also to make clear that the conditions applied all year. "Hot all year and wet all year" was the simplest answer. Candidates usually discussed rainfall but did not always mention temperature.

Question 6

- (a) Before 1974, Los Cabos could be reached from the sea, but also by air, since the airport had expanded in 1986 but was in existence as a domestic airport before that date. Some candidates had a suitable answer, and there were some detailed explanations about the airport, but others had looked at Fig. 12, without considering the date, and responded with "highway". Los Cabos is isolated at the end of a long peninsula and, as such, is remote and inaccessible. This was the sort of comment required for **part (ii)**, but some candidates struggled to express this. Comments such as "it's away from the mainland" and "there's a lack of transport" were too vague. However, most candidates stated the correct compass direction in **part (iii)**: SE or SSE.
- (b) This last section involved both description and explanation. The graph in Fig. 13 shows an exponential rise so an early slow increase and a later fast increase could be noted. Descriptive words needed to be chosen carefully. For example "steady increase" suggests constant and can be slow or fast. Other possible descriptive points were the very large or rapid overall increase and the initial lack of tourists. Most candidates got both explanatory points: the building of the road and the expansion of the airport, although some assumed the airport was built in 1986. It should be noted that Fig. 13 refers to air and road arrivals only.

Paper 0460/03 Coursework

General comments

The work submitted by candidates in this session represented a similar standard to that from previous sessions. There was some excellent Geography submitted, particularly from candidates at the upper end of the mark range from a good number of Centres. This reflected good work from several stages of the route to geographical inquiry. It was clear that in many instances there had been good planning followed up by purposeful fieldwork. A good variety of methods of data collection had been used, and they were almost always appropriate to the study being undertaken. The results of this work had been processed well and presented clearly using a variety of techniques appropriate to Geography. The outcomes had then been analysed in relation to theory and the initial questions posed, with clear conclusions from them, along with a sound evaluation. As can be expected, not all the work from every candidate achieved all of these qualities, but it was clear that most Centres had a task before their candidates that had the potential to realise all of these qualities. The suitability of investigations to be undertaken can vary. Some do not give scope for candidates to access high marks on all of the assessment criteria. There is information later in the report on how to ensure an investigation is suitable.

As with Centres that took this unit in the June Session, entrants had to deal with the new syllabus, examined for the first time earlier during 2011. Changes to the syllabus have probably affected Paper 3 more than any other so there was a good deal to adjust to by Centres. Not all Centres managed all the changes fully this first time round, and CIE has treated work leniently and sympathetically where not all adjustments had been made. Moderators have reported back to Centres where further adjustments are needed to conform to the new version of the syllabus. Reports from Moderators contain not only information on the quality of internal moderation that was carried out, the successful aspects of the work candidates undertake, and where improvements to the work can be made, but also what needs to be done to meet the requirements of the new syllabus fully, if that should be necessary. Below there is some advice about adjustments that need to be made for difficulties encountered making the switchover between the old and the new, that have commonly occurred. After this first year, during which there have been the opportunities for Moderators to give feedback, it is hoped that all adjustments will be made fully in the future. As a result, in future sessions, work that does not fully meet the requirements of the new syllabus may not be treated as sympathetically as it has been this year.

Firstly, only one piece of work should be submitted, not two. Some Centres did send two pieces in the October/November session, as was the pattern under the old syllabus. Many Centres had two tried and tested pieces of work that had been used successfully for many sessions in the past. Centres can still use either of the investigations that candidates have undertaken in earlier years, but for an examination session, each candidate should only carry out one such investigation, and just one piece of work from each candidate should be submitted.

The importance of having an investigation that is capable of allowing candidates to achieve high marks on each criterion has been alluded to above. Centres are asked to submit proposals on the work candidates will carry out well ahead of the work being undertaken. This is to ensure that what is proposed gives ample opportunity for candidates to score well on all of the assessment criteria on which they will be judged. In the vast majority of cases, these proposals are approved right away. Whilst giving approval, CIE often offers advice on aspects that have perhaps not been given as much attention as they could. Such advice often takes the form of passing on the experience from Centres that have been particularly successful, so that a Centre may improve on what is an already sound proposal. In the rare instances where proposals are not approved, Centres should be aware that the reason for this is that what is proposed may have some weaknesses that are likely to lead to candidates not being able to score well on one or more aspects of their work. In such cases, detailed advice is provided by CIE, and Centres are asked to submit the proposal again.

When proposals are first submitted, it is often noted that some aspects of the work, related to certain assessment criteria, are very full and done particularly well. Unfortunately, it is not uncommon to find that some aspects have been rather neglected, and this can lead to candidates underachieving on some of the assessment criteria. As a general rule, the background to the study, both in the locality chosen and the geographical theory involved, are usually covered well. Methods of data collection are usually given in great detail along with a thorough justification for their choice. Less often included is a section on the methods that can be used to process the data, and particularly, on the ways this information can be presented by a variety of means in candidates' reports. Different kinds of graphs, some with a degree of complexity to them, and various kinds of map, again some with high-level processing involved, are given by some Centres but not others. It is recommended that proposals indicate the range of presentation techniques appropriate to the study that could be used by candidates in their reports. What is rarely included is much information on how candidates can analyse their findings. It is on this criterion that many candidates fail to gain high marks. Most youngsters at this level just do not know what is required of them in analysis and often offer a lightweight section here. Similarly, most youngsters at IGCSE level are not fully aware of what is needed in a conclusion and certainly need guidance as to how to approach an evaluation. More Centres include information on conclusions and evaluation than on analysis, but it is one of the areas that is often left out of proposals. However, weaknesses in covering any of the stages in the route to geographical enquiry, are unlikely to lead to a proposal not being recommended for approval.

In all proposals, and in all the work carried out by most candidates, the topics chosen for investigation have been very well founded in the content of the syllabus. There has not arisen any instance of work proposed being inappropriate in its geographical basis. It is clear that most Centres are aware of the potential for geographical investigation in their localities and very sound proposals have resulted from this. The only concerns that have arisen in relation to the proposals are those of health and safety. For example, it is always worth checking for health hazards in conducting river studies, and these may also involve safety issues, particularly with rivers that carry a large volume of water or have a high velocity. In some human studies, particularly where interviews or questionnaires are planned, it is best to check whether some questions might not be too sensitive, and may possibly provoke reactions that may present a danger to candidates.

As from this year only the mark scheme that is published in the syllabus should be used. Unfortunately, for each year of the syllabus this is printed on a different page, so it is not easy to give just one page number. However, it is not difficult to find in any year of the syllabus. In the past, many Centres could adapt the published mark scheme to meet particular aspects of the work they were undertaking. This may have exaggerated unevenness in marks initially submitted by Centres, which may in turn have increased the number of adjustments to marks that needed to be made by Moderators. With all Centres using just the one mark scheme, there is a much greater likelihood that marking standards will be comparable between Centres. It gives one uniform yardstick that can be applied to all Centres, no matter where in the world they are located.

If a Centre submits a proposal that contains a mark scheme adapted from the published one, but devised to assess the study being undertaken, they are likely to be given approval but would be asked to remove it and not to use it in internal moderation. If proposals in subsequent years still contain Centre-devised mark schemes, it is likely that approval would not be given to the proposal.

As the number of studies has fallen from two to one, the word limit for studies has been increased from 1500 to 2000 words. This should give candidates the chance to express in fuller detail information for each stage in the process. Centres are advised to ensure that all their candidates keep to the word limit. CIE will not apply penalties to over-length studies at the moment, but this cannot be guaranteed to continue into the future. Allowing additional word allocation to a report is similar to allowing unauthorised additional time in a written exam. It has also been found by Moderators that candidates who have gone well over-length have often disadvantaged themselves in other ways. Many of these candidates have written additional material that is not relevant to gaining credit. For example, one candidate wrote at very great length on aspects of the background of the study area that had no bearing on the issue being investigated. In order to avoid submitting work excessively over-length, the candidate trimmed down the conclusions and evaluation to even less than the bare bones, and as a consequence, did not achieve a very high score on that criterion.

However, shortcomings are limited to a relatively small number of Centres. It is worth being aware of what they may be, particularly if a Centre is new to this paper, or when a major change in the staffing related to this component takes place. For the vast majority of Centres, few difficulties arise, and Moderators look forward to reading the interesting and good quality work that come from the studies.

Paper 0460/41

Alternative to Coursework

General comments

Most candidates found this examination enabled them to demonstrate what they knew, understood and could do. The overall range of marks was wider than in previous years - with weaker candidates scoring on the practical questions, such as drawing and interpreting maps and graphs, and those of higher ability scoring well on the more challenging sections requiring explanation and judgement especially regarding hypotheses. Overall the two questions proved to be of equal difficulty.

There is less general advice to be given for areas for improvement with this paper compared with others. As there are no choices to make, it is difficult to miss sections out, although some candidates omit graph completion questions which are usually 'easier' to answer. Although there were no reports of time issues some candidates do write too much in some sub-sections. They should be encouraged to answer more succinctly and perhaps give more thought to their answers. Most points for teachers to bear in mind, when preparing candidates for future Paper 41 questions, relate to misunderstanding or ignoring command words and the use of equipment in fieldwork. Particular questions where candidates did not score well also often related to them not fully reading the question, for example **Question 1(a) (ii)** where candidates described sphere of influence rather than explaining how it would vary. Questions which require candidates to develop their own hypothesis or investigation methodology are common on this paper. This is an area which Centres could practise with candidates.

Centres need to realise that, although this is an Alternative to Coursework examination, candidates will still be expected to show that they know how fieldwork equipment is used and appropriate fieldwork techniques even if they have only limited opportunity for fieldwork within the Centre, for example **Questions 2(c) (i) (ii)** and **(iii)** required candidates to describe weather recording instruments and methods.

Comments on specific questions

Question 1

- (a) (i) Most candidates selected the correct definition. Giving candidates a choice of answer appeared to help them to focus on the correct meaning.
 - (ii) Few candidates scored full marks. The most common suggestion for variation was related to the number of services provided in different sized settlements. Better answers also referred to specialised services or the different order of services being provided. A common mistake was that candidates described how the sphere of influence would vary rather than explaining why it varied.
- (b) (i) This question was answered well by most candidates. They made sensible criticisms of the three questions or suggested what questions could have been asked to improve the questionnaire.
 - (ii) This question was poorly answered. Most candidates did not appreciate that 10% is an appropriate sample size when it involves asking 125 candidates. Many candidates suggested that all candidates should be interviewed which is not appropriate for sampling. Some candidates who responded 'yes' then referred to the questionnaire itself being short or quick to answer, rather than relating their answer to sample size.
 - (iii) Candidates generally showed good understanding of sampling methodology. Many referred to choosing candidates from each year or age group or School grade. They also recognised the importance of an appropriate gender balance. Good ideas were also expressed about how this sampling could be done by incorporating different sampling techniques within the classes chosen. Weaker answers typically just named sampling techniques with no application to the task.

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- (c) (i) Most candidates correctly completed both parts of the task.
 - (ii) Almost all candidates correctly completed the pictogram.
 - (iii) Again almost all candidates completed the choropleth map accurately.
 - (iv) The quality of answers varied greatly. Whilst weaker answers recognised that a pictogram is easy to read and compare areas, the best answers referred to being able to distinguish patterns, make comparisons between districts, and group districts within categories.
 - (v) The question differentiated well. Many excellent responses recognised that the hypothesis was not correct and supported this conclusion with appropriate data from the maps. In contrast and despite the evidence some candidates tried to argue that the hypothesis was fully correct. Some candidates who reached the correct conclusion did not score maximum marks because they used statistics without interpreting them, for example, that some areas which were located near to the School had few candidates attending. Candidates need to be aware that they cannot gain maximum makes merely by quoting statistics.
- (d) (i) Almost all candidates calculated the correct percentage figure.
 - (ii) Most candidates completed the pie graph accurately and shaded the sections correctly.
 - (iii) The question achieved good differentiation. Most candidates recognised that bus was the most popular method of travel and gave evidence to support this fact. Some candidates only referred to one mode of transport and so failed to score maximum marks. The best answers referred to car, bus and train travel.
 - (iv) Most candidates gained credit by referring to further investigation into distance and / or time. However, many different suggestions were credited, including investigation into correlation between age and method of travel, and whether candidates only used one method of travel to School.

Question 2

- (a) Whilst almost all candidates correctly named a thermometer to measure temperature far fewer were able to name a hygrometer or wet and dry bulb thermometer to measure relative humidity.
- (b) Many candidates recognised the need to record measurements before and after the investigation in order to show changes or comparison as a means of testing the hypothesis. However, a common error was to focus on the idea of taking several measurements in order to calculate an average figure which would be more accurate or reliable. This was not the purpose of the additional readings.
- (c) (i) Whilst almost candidates attempted to draw a diagram their quality was very variable. The more accurate answers were often contained within the text. Candidates should be able to draw simple diagrams of weather instruments as well as explain their use. A few excellent candidates drew detailed annotated diagrams which scored maximum marks on the diagram alone.
 - (ii) Candidates generally scored better on this question than the previous one. They made use of the diagrams provided to stimulate their explanation. There were many detailed answers explaining how the instruments worked and how they were used to indicate wind speed and direction. Weaker answers were unclear on how wind speed is measured and how a wind vane shows the direction of wind (i.e. it points to where the wind is coming from, not where the wind is going to). Answers included basic errors such as reference to the whole anemometer spinning, the wind vane spinning and the compass points turning rather than the wind vane. Such errors may have been the result of candidates not having used these instruments in fieldwork.
 - (iii) Some candidates were confused over whether the index pointer reads off the pressure or is used to indicate change in pressure. Whilst most candidates did correctly refer to change of pressure few explained that the index pointer was set to a previous reading. Most candidates thought that it showed the average or 'normal' pressure.

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- (iv) Surprisingly most candidates did not know the correct unit of measurement of cloud cover. There were many incorrect answers including metres, kilometres squared and octaves.
- (d) (i) Most candidates correctly read the pressure reading on the barometer. However, a common error was to read the measurement showed by the index pointer.
 - (ii) Nearly all candidates accurately plotted the rainfall bar.
 - (iii) Again nearly all candidates completed the line graph accurately.
 - (iv) The wind rose was also completed accurately by most candidates. Where candidates lost a mark it was usually because the bar to indicate wind speed was inaccurate.
 - (v) This question proved to be more difficult than others in this section. Whilst many candidates were able to draw an appropriate diagram some candidates shaded it too darkly to gain credit. Weaker answers confused cumulus cloud with cumulonimbus cloud.
 - (vi) Nearly all candidates correctly completed the cloud cover diagram.
- (e) (i) Many candidates recognised the inverse relationship and described it well. They also supported their decision by using two sets of contrasting atmospheric pressure and rainfall data. A small minority of candidates lost mark by not giving the units of measurement.
 - (ii) Candidates also answered this section well. Candidates described the relationships between atmospheric pressure and wind characteristics and usually supported them with appropriate data. More answers focused on wind speed than wind direction but generally candidates showed good understanding of the hypothesis.

Paper 0460/42 Alternative to Coursework

General comments

Most candidates found this examination enabled them to demonstrate what they knew, understood and could do. Weaker candidates scored well on the practical questions, such as drawing graphs, diagram completions and those of higher ability scoring well on the more challenging sections requiring explanation, comparison and judgement especially regarding hypotheses. Fewer candidates scored high marks (over 50 out of 60) than in previous sessions largely due to difficulties with **Questions 1d** and **2e**.

There is less general advice to be given for areas for improvement with this paper as with others. As there are no choices to make, it is difficult to miss sections out – though a small minority of candidates do. There were no reports of time issues as the booklet format does not allow or encourage over-writing of subsections. Most points for teachers to consider, when preparing candidates for future Paper 42 questions, relate to misunderstanding or ignoring command words, the use of equipment in fieldwork and formulating practical hypotheses that could be realistically tested in the field. Particular questions where candidates do not score well also often relate to them not fully reading the question or taking time to thoroughly understand the resources referred to. Such failings mean that some candidates do not obtain a mark in line with their geographical ability.

Centres need to be aware that, although this is an Alternative to Coursework examination, candidates will still be expected to show that they know how fieldwork equipment is used even if they have only limited opportunities within the Centre to use it. **Question 1** required candidates to have experience of systematic and random sampling techniques, a bi-polar environmental scoring system, and some ideas about how natural features could be investigated by fieldwork on two coastal areas. **Question 2** required candidates to have experience drawing scatter graphs, carrying out village surveys, completing tables for services and have some ideas for investigating changes in a village in an MEDC.

A few tips to pass on to candidates:

- When answering Hypotheses questions that ask whether you agree or not, always give your opinion first before any supporting evidence. This will usually be Yes, No or partially/to some extent.
- When giving figures in an answer always give the Units if they are not stated for you.
- Read questions carefully and identify the command word e.g. Describe, Explain...
- When asked to compare, make judgements e.g. *higher, lower*, rather than just list comparative statistics.
- Check you are using the resources that a question refers you to (e.g. Table 3, Fig. 2).
- Take into account the marks awarded. Examiners do not expect you to be writing outside of the lines provided so do not write a paragraph when only two lines are given this wastes time.
- If you have to write more than the lines allowed indicate this with a phrase such as "continued on page 14". This is very helpful to the Examiner in finding your additional answers.

Comments on specific questions

Question 1

(a) (i) There are still too many vague answers regarding systematic sampling. Examiners are looking for clear understanding that this involves sampling in regular or equal intervals e.g. every 10th house. Stating that it is in order, organised or step-by-step is not enough to distinguish it from other sampling techniques e.g. using random numbers produces an order and is organised. Sampling techniques as stated in the syllabus are a key area for centres to work on when preparing for this examination.

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- (ii) Random sampling is a recognised alternative technique and it needs to be taught as thoroughly as systematic sampling. Too many candidates do not appear to know the formal technique. They regard random sampling as, for example, throwing quadrats around, or being able to choose your friends/interviewees. While these loosely meet a definition of random, the technique taught should be more sophisticated e.g. the use of random number tables. Then candidates could clearly compare the advantages and disadvantages of both. One advantage of systematic is that it is quicker to choose sites than working them out by random numbers; having an equal interval also avoids the temptation to bias though random numbers does this too. Most candidates realised systematic was quicker and credit, on this occasion, was awarded for systematic being a fair/unbiased system given many candidates were unclear about what random sampling should involve. Future marking of random sampling techniques may be less generous.
- (b) (i) This was done well. Most candidates stated that it might be hard to distinguish the different sizes of material and that it would be a subjective judgement between different people. Common answers also alluded to the problem of mixed materials and other beach material being present. For credit in the latter case, candidates should have suggested an example of other beach material e.g. shells, wood.
 - (ii) Many candidates gained 2 marks for correct plotting at 18 degrees; a number were also credited both marks for doing it correctly but the wrong way round. A significant minority however did not attempt the pie chart.
 - (iii) The question asked candidates to describe how proportions differed. Some candidates just stated the percentages at each beach with no comparative statement given. Those that scored well made qualitative judgements as required e.g. more sand at Beach X than Y. A number used the Sites 1/2 and 3/4 despite the question clearly asking for a comparison between the beaches. This is an example where the command word *Describe...* means write in words, not just state figures from the data provided. Some candidates compared sites on the same beach rather than between beaches.
 - (iv) Although the majority chose Beach Y correctly, too many made erroneous judgements and thereby could not gain any of the 4 marks available. The data provided, if carefully studied, could have no other outcome. Many candidates also wrote about Beach X even if they correctly chose Beach Y. Those that chose Beach Y could recognise the significance of Sites 3 and 4, their relative positions at the low water mark and the cliff, and could describe how the size of pebbles changed up the beach while also quoting some back-up data e.g. shingle increased from 20-50%.
- (c) (i) This was quite well done. Some candidates described how they would carry out the survey rather than go through the decisions needed before carrying it out but the majority did suggest various things that needed decisions e.g. when to carry it out, how to decide what would count as litter, how to make consistent judgements on the scoring system and where the sites should be as well as how the candidates might group themselves.
 - (ii) The majority of candidates could plot and shade -2 for plastic at Site C and +1 for plastic at Site D. A number did not fully shade the +2 bar they just shaded the +1 to +2 section and a few put the bar on the wrong row or on the wrong side of 0.
 - (iii) The most common similarities were that Site A and B all reached +1 or that there were no negative scores at Sites A and B or that they scored the same for no wood or plastic. Differences proved more challenging and here some candidates were confused by the bi-polar system. They seemed to judge that more shading to the right, such as +2, meant more litter than a +1 score. Not only was this incorrect but it would also have a small influence on future judgements. It was not true that there was more litter in B than A because B had a higher score; rather the reverse. If candidates had looked more closely at Fig. 5 before carrying on, it was clear that the key descriptors (e.g. no glass, lots of glass et al) meant that a high positive score meant no litter and a high negative score meant lots of litter.
 - (iv) Most candidates agreed that there was a variation in environmental impact and gained 1 mark for this. However several did not gain the second mark because they interpreted the bi-polar scores in reverse i.e. that Beach X was more littered than Beach Y when careful observation of the scoring system revealed that Beach X had less litter than Beach Y.

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- (v) Those candidates that had concluded that Beach X was cleaner than Beach Y often went on to gain marks for suggesting that the hotels or council employed staff to keep the beach clean or that there was an anti-litter policy or there were litter bins. They also linked the caravan site to the litter at Beach Y and suggested that, as it was far from the urban area, there was less concern over litter here. Candidates who misread the bi-polar system gave reasons why they thought Beach X was more polluted mostly linked to the number of tourists and residents there.
- (d) (i) The emphasis in this question was to get away from the human effects explored in the previous questions and get candidates to think of an investigation to compare the natural features of the two areas of coast. The phrase "natural features" appeared to be misunderstood by many candidates who frequently suggested aspects of tourism and urbanisation to investigate. Hypotheses that did not focus on natural features of coasts were not credited for example wind speed, air quality. Those that were included comparing beach profiles, the effects of longshore drift at both beaches and differences in vegetation. Too many were impossible, unrealistic or irrelevant to the idea of natural features on the two coasts.
 - (ii) Candidates who had suggested a hypothesis in (i) that was unacceptable were still allowed a maximum of 2 marks out of 4 if they suggested sensible ways of going about their investigation. Quite a number however gave vague statements that showed little awareness of fieldwork techniques e.g. count the tourists, look at the beach, carry out a questionnaire, check whether people are staying at hotels, and measure the length of the beach. There was little explanation as to how they would carry out these activities. There is scope for centres to teach how to carry out small-scale investigations of various topics based on those to be taught in the syllabus e.g. river studies, coastal studies, urban studies. Incorporating these into a scheme of work when the topics are taught would be a sensible move. Past examination papers provide an excellent vehicle for covering the majority of fieldwork-based questions that have appeared in recent years.

Question 2

- (a) (i) It was expected that candidates would be able to suggest two different types of secondary data that could produce the village populations and many did suggest using a past census, village archives, and the Internet or various records. However almost the majority focused on primary methods and made unrealistic suggestions such as knocking on doors and asking how many people lived there, counting people in the street or asking the village headman (these are MEDC villages as stated in the rubric). Counting the houses and multiplying by an average number of people was accepted as an estimate but some just suggested counting the houses.
 - (ii) Opinions were divided equally between which method was the best. Candidates who chose A recognised that it would ensure all services were listed and none would be missed out; many suggested that using B would not be as comprehensive. Those choosing B suggested that to be less time-consuming as all that was needed was ticks on a sheet for each type rather than a list of every service. They also recognised that a pre-prepared list would show what was not present and would make for easy comparison of types. Any of these arguments gained credit. A few candidates did not choose A or B but wrote Systematic, Random, Observation or other generic methods that were not listed.
 - (iii) The best candidates realised that the focus of this question was about each pair of candidates working in different villages; not about any problems candidates might meet in general by carrying out a survey. Disadvantages such as each pair using different methods, lack of opportunity to check with others that the correct procedure was being carried out, the lack of time to do a full survey were all suggested. General issues such as people not being willing to answer, being busy, privacy issues were not credited as these are not specifically a disadvantage for separate pairs of candidates.
- (b) (i) Almost all correctly placed the three ticks for the mark. Most also put crosses to match the other rows; this was good practice though those that left blanks were not penalised.
 - (ii) Apart from the few candidates who did not attempt this, the rest all correctly totalled the ticks to 6.
 - (iii) It was very surprising to see that only a small number of candidates recognised the railway station as the highest order service shown. Almost 90% of candidates put the post box which was the only service present in each village the most popular but was not the highest order service. Other answers gaining no credit included Ince (the village with most services), 9 and the general

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store/surgery. Centres need to make clearer to candidates what high and low order services are and be sure candidates can identify examples of each. This was a relatively easy mark lost by many.

- (iv) Various labels were added to the horizontal axis but most used the word population e.g. number of population, population size, and village population and gained the mark. A few wrote "horizontal axis" in the space having read the instruction too literally.
- (v) Ince was well-plotted. The mark was given for the plot so adding the name was not essential but, bearing in mind the names by the other plots, it was good practice to add Ince by the plot and most did this.
- (vi) This was well done. Most candidates recognised Ince had the highest population and number of services and compared it with Stanley adding population figures and service statistics thereby gaining 3 marks. A few just stated figures for population and services without any comparisons made so credit was limited. It is important that statistics are used to support judgements, not just "lifted" from data and stated on their own they become meaningless. A few did identify and state the positive correlation on the graph.
- (vii) Most candidates could gain a straightforward mark for recognising the increased need for more services due to the greater population. Only a few however gained the second mark for adding that more people meant threshold populations were met for various services e.g. Schools, shops, and that more people meant businesses could develop for profit. Given the answers to (iii), Centres would do well to focus on settlement hierarchies, high/low order goods and services while linking this to the sphere of influence. These topics were not well understood.
- (c) (i) This was well done; almost all gained 3 marks for matching the reason to the three answers given. Some candidates gave the wrong reason for 2 stating "work in or near the village" despite the quote saying that the person worked in the city 40 kms away and took 30 minutes to get to work. The reason had to be "Good access to the motorway".
 - (ii) Well plotted by almost all candidates. A few plotted the smaller bar at 4 or 5; a very small number did not attempt the graph.
 - (iii) This was quite well done with most candidates scoring 3 or 4 marks; a number did not give any statistical support thereby limiting the credit to 2 or 3 marks. Candidates should have disagreed with the hypothesis and then listed the main reasons from the graph e.g. good access to the motorway while noting that 67/113 i.e. over 50% lived there for different reasons than in the hypothesis. Those listed in the hypothesis were among the least popular rankings with only 28/113 or around 25%. Supporting judgements on hypotheses will always require some use of data from the resources to back them up.
- (c) In this answer, general problems in carrying out a survey were allowed as well as any specific to Bethel. Here candidates could gain 1 mark for personnel issues such as too busy, unwilling, and uncooperative though not for people telling lies how would they know? Other marks were given for recognition that Bethel was a large village so a pair of candidates might find it difficult to survey a sufficient sample size in the time allotted. The fact that some people may have been at work giving an unbalanced response was also credited. What was not allowed were suggestions that the candidates would get tired, there was no cafe to have a snack or a rest or that they would not be able to get there as there was no railway station.
- (d) The answers to this were disappointing. The question clearly stated "in addition to population changes" yet far too many candidates gave investigations that would look at past and present populations or ideas relating to migration in and out of the village. A few candidates just suggested looking at village changes without specifying which. Few answers involved the study of change but credit up to 2 marks was given for topics that could be carried out in the present e.g. traffic flow within the village, employment, litter/environmental surveys, housing types. The best candidates suggested looking at changing services (past and future), changing housing/buildings/land-use (past and future). How to access and use past records, photos, and maps however was never really explained by most candidates.

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Paper 0460/43
Alternative to Coursework

General comments

Most candidates found this examination enabled them to demonstrate what they knew, understood and could do. The overall range of marks went from 1 to 58 out of 60 - a similar range to previous years - with weaker candidates scoring on the practical questions, such as drawing and interpreting graphs and maps, and those of higher ability scoring well on the more challenging sections requiring explanation and judgement especially regarding hypotheses. Overall **Question 2** proved to be slightly easier than **Question 1**.

There is less general advice to be given for areas for improvement with this paper compared with others. As there are no choices to make, it is difficult to miss sections out, although some candidates omit graph completion questions which are usually 'easier' to answer. Although there were no reports of time issues some candidates do write too much in some sub-sections. They should be encouraged to answer more succinctly and perhaps give more thought to their answers. Most points for teachers to bear in mind, when preparing candidates for future Paper 43 questions, relate to misunderstanding or ignoring command words and the use of appropriate fieldwork techniques. Particular questions where candidates did not score well also often related to them not fully understanding the question, for example **Questions 1(a) (ii)** and **1 (c) (ii)**. Questions which require candidates to develop their own hypothesis or investigation methodology are common on this paper. This is an area which Centres could practise with candidates.

Centres need to realise that, although this is an Alternative to Coursework examination, candidates will still be expected to show that they know how fieldwork equipment is used and appropriate fieldwork techniques even if they have only limited opportunity for fieldwork within the Centre. For example **Question 2(b)** required candidates to describe how to make measurements of a river channel, and **Question 2(f)** instructed them to suggest appropriate questions for a questionnaire.

Comments on specific questions

Question 1

- (a) (i) Generally sensible advice was suggested with particular emphasis on the dangers of deep, fast flowing water, slippery rocks, and the need to wear suitable clothing and footwear. Answers which were not credited included wearing life jackets and the need for swimming lessons. Some weaker answers gave advice about data collection rather than safety.
 - (ii) Many candidates did not understand what a pilot study is or why it might be useful. However, the idea of a practise session is becoming more appreciated but without a real understanding of how it might benefit a study. Some candidates still took the literal meaning of 'pilot' and wrote about views from an aeroplane to see the whole river.
- (b) Most candidates showed understanding of the measurement techniques and equipment. Weaker answers did not make it clear that a width measurement must go from bank to bank rather than just across the river. Similarly the best answers specified that to measure the depth of the river the ruler must touch the river bed and the measurement must be read where the water level comes up to on the ruler.

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- (c) (i) Most candidates completed the cross section accurately by plotting the points, joining them and shading the appropriate area.
 - (ii) Whilst better candidates measured the wetted perimeter very accurately, many candidates gave an answer of 6.5 metres which showed a lack of understanding of the diagram and the idea of a wetted perimeter.
 - (iii) Most candidates showed an understanding that the speed of flow will slow down due to increased friction with the channel.
 - (iv) Many candidates recognised that all three measurements increased downstream. However, some candidates did not refer to all three variables and did not gain the mark. Whilst many candidates gave correct data some weaker answers included inaccurate statistics and lack of units.
- (d) (i) Answers varied in accuracy and understanding shown. Answers needed to refer to the length or longest axis of the pebble measured with the ruler. Many candidates did not refer to the roundness score chart which suggests that they may not have followed the instruction to look at Figure 3.
 - (ii) Most candidates completed the bar graph accurately, although a small minority did not attempt the question.
 - (iii) Most candidates agreed that there was a relationship between the two variables. They recognised that smaller pebbles are also rounder.
 - (iv) The most commonly suggested reason for the change was erosion or attrition. Better candidates also explained how and why this would happen more downstream.
- (e) This question was answered well by many candidates who made appropriate suggestions for improvement. Amongst the more common suggestions were to take more measurements at the existing sites, to make measurements at more sites along the river or a different river, to increase the pebble sample size, and to take more measurements at different times of the year when the river conditions may vary.

Question 2

- (a) (i) As in Question 1 many sensible suggestions were made on the methodology of the traffic survey. More common suggestions focused on how and when to do the counting, the equipment that would be needed, and appropriate grouping of the candidates.
 - (ii) Most candidates showed an understanding of a tally method of counting. They recognised that it was an easy counting method, especially if vehicles were passing quickly. Fewer candidates referred to the benefit of easy and accurate totalling of results after the count was completed.
- (b) (i) Nearly all candidates identified the correct road.
 - (ii) Most candidates drew the two bars accurately in the appropriate places. Again a small minority did not attempt the question.
 - (iii) The question differentiated well. Better answers recognised that the hypothesis was incorrect or partially incorrect. They then supported this conclusion with appropriate statistics from different roads. The best answers also stated that there was little variation on any of the roads, or that traffic varied more between roads than with distance from the town centre. Weaker answers used statistics from morning and evening surveys which was not the focus of this hypothesis.
- (c) (i) The question was difficult for many candidates but better candidates did make an appropriate suggestion. These candidates realised that the results were similar at both sites on each road so it would be simpler to use one set of data. Another good response was that results were only needed from one site because the hypothesis focused on times of the day not distance from the centre.
 - (ii) Most candidates drew the flow lines accurately and with the arrows pointing in the correct direction. Only a small minority drew the arrows pointing incorrectly.

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- (iii) Nearly all candidates ranked the roads in the correct order.
- (iv) Most candidates agreed that the hypothesis was correct and gave appropriate supporting data to describe the different pattern of movement at 08.00 and 17.00. Weaker answers did not compare different times on the same road, or compared movement in and out of the town centre at one time only.
- (d) This question was a good discriminator. Candidates generally suggested appropriate improvements such as conducting another survey at midday, using more candidates to check the accuracy of counting and to repeat the count on another working day or at the weekend.
- (e) Many candidates realised that the beach might affect traffic flow along the two roads leading to it. Consequently they suggested that there would be more traffic at the weekend or on sunny days as more people went to the beach. Weaker candidates continued to concentrate on traffic going to and from the town centre and so missed the important focus on the beach.
- (f) (i) Many suitable hypotheses were suggested which focused on peoples' attitudes to the traffic free zone. A minority of candidates did not understand the meaning of traffic-free zone and so their suggestions were vague.
 - (ii) Candidates who had suggested an appropriate hypothesis generally related their questions to it well. The questions concentrated on whether the interviewee was for or against the traffic-free zone and the benefits or disadvantages of it. If the candidate's hypothesis was unacceptable they were still able to gain marks by suggesting suitable questions about a traffic-free zone.