GEOGRAPHY

Paper 2217/01
Paper 1

General comments

As is the previous examination sessions in 2005 and 2006, whatever the topic being tested, the structure of the questions followed a regular format:

- Questions were structured with an clear incline of difficulty, starting with relatively straightforward, resource based tasks, which generally required brief responses, progressing to those which were more demanding and required extended writing.
- Throughout the paper a variety of resources was used and within each question different resources were used in each of parts (a) and (b). Whilst some tasks involved the direct use and interpretation of the resource, others used it as a stimulus to responses.
- The final task always involved extended writing (for 7 marks) and either required or invited candidates to demonstrate case study knowledge.

As this structure will continue to be used it is worth familiarising future candidates with it.

Most scripts could be read reasonably easily but there were some which were very difficult to read. Clearly if sections of the paper are not legible this is to the disadvantage of the candidate.

Overall the paper differentiated well, both between and within Centres. From well prepared candidates there were excellent responses throughout, although of course there were many weak candidates who were only able to cope with the most basic of tasks. Having said that, most candidates made a genuine attempt at the paper. As always there were a significant number of candidates, almost exclusively weaker candidates, who answered all six questions, invariably superficially, rather than selecting three as per the rubric. Clearly this is to their disadvantage. Time management was good by the majority of candidates, although some spent too much time on one or both of their first two questions at the expense of their third question. Whilst most candidates responded well to the command words used and tasks set, there were some who wrote all they knew about the topic without being selective and answering the question as set. Candidates need to be familiar with the command words used, and respond to them in the correct way to score marks. A particular problem to many candidates occurs when a question is set which requires a comparison to be written, as many lose marks by not doing so. Candidates should be taught to use words ending in —er, or the word 'whereas' in such answers in order to achieve comparisons.

It was particularly pleasing to read answers from those candidates who effectively used local case study materials in some of their answers, rather than the standard textbook examples. Candidates should, wherever possible, have knowledge of appropriate case studies to back up their generic knowledge and understanding. The syllabus is constructed in such a way that, wherever a Centre is located, there are likely to be opportunities to make use of local case study materials in many parts of the course and Centres are encouraged to make use of such case studies in conjunction with appropriate text book examples, in order to provide a sound spatial balance for candidates during their course. A blend of small scale, regional and national examples, within the context of the local area, and from other countries at different levels of economic development, is ideal. The final part of all questions in future examinations will require candidates to use a named and located case study. Candidates therefore will need to be able to refer to real examples and include place specific details to add credibility. They should be able to develop the points they make as fully as possible rather than simply listing a series of basic generic points.

www.PapaCambridge.com

The following list of points would be a useful reminder for future candidates:

 Make sure you know the examination rubric. Read and obey the instructions on the from Do not answer all questions, as you are only asked to choose three questions.

- Read each question carefully, paying particular attention to command words. It may help you to
 use a highlighter pen to pick out key words in each question, particularly the command words
 which tell you what you need to do.
- Learn the details of all your case studies so you can use them to answer the last part of the
 questions which you choose in detail. In your answers develop the points which you make and add
 place specific detail to give them authenticity.
- Do not repeat the same answer in different sections such answers rarely gain double credit.
- Use all the resources and do not ignore resources such as maps, photographs and diagrams which
 are provided. Be precise when using information from maps, graphs and diagrams and make sure
 you include the correct units when asked for measurements.
- Use the number of marks available for a section as a guide to the number of points needed. Do
 not write a full page of information if the question is only worth two marks. However, be prepared to
 develop ideas and extend answers in order to try to increase the marks in questions which are
 worth a large number of marks.
- Be aware of how much time you are taking to answer each section of the examination paper and
 use your time wisely. Do not spend half the examination time on answering the first question and
 have to rush through the remaining two questions. Do not sit back when you have completed your
 answers. Re-read and check your answers adding more facts and ideas if you can remember
 them.
- Ensure that the correct equipment is brought to the examination including pen, pencil, ruler, rubber and calculator.

Comments on specific questions

Question 1 was the most popular question, **Questions 4**, **5** and **6** were also popular choices. The whole range of responses was seen to all six questions, including those which were least popular, however a significant number of candidates who selected **Questions 2** and **3** were poorly prepared on those topics, and produced low scoring answers.

Question 1

- (a)(i) A straightforward question for most candidates, most could read the scatter graph, although quite a few put both Madagascar and Sudan, having looked only at the axis showing birth rate.
 - (ii) This produced a range of responses, with those candidates who were familiar with the method by which natural population growth rates are calculated confidently using the scatter graph to obtain the figures for birth and death rates, then carefully calculating the rate of natural growth. Errors included the incorrect reading of birth and death rates from the scatter graph, incorrect calculations, the use of an incorrect formula (often birth rate divided by death rate), and the failure to express the growth rate correctly, either per 1000 population or as a percentage.
 - (iii) Many candidates scored both marks available here, though clearly in order to do so they needed to be able to work out population growth rates rather than simply reading off birth and death rates. Thus wrong answers included Botswana or Tanzania which were often given for part **A**, and/or the USA or Morocco for part **B**.

s on the from

- (iv) Clearly the question required a comparison here, in order to explain why Botswana death rate than the USA. Whilst there were some excellent comparisons, many candictor to make any attempt to compare and lost marks by just explaining why death rates were Botswana. For example, they referred correctly to the impact of HIV/AIDS on the death Botswana, however they needed to say that this impact was greater in the USA. Similarly quality and quantity of healthcare was relevant, however the vital part of the answer which was often missing was that it was 'better' in the USA.
- (b)(i) Many candidates answered this question well and scored high marks. The reasons for falling birth rates are well known and it was interesting to see the development of points involving female emancipation as well as the usual family planning answers. A few misread the question and gave reasons for falling death rate.
 - (ii) Clearly this was a challenging question, as it required an interpretation of the graph which referred to changing growth rates (backed up by figures properly expressed) rather than a reference to birth rates and/or death rates alone. Whilst some high quality answers were seen, many candidates did not perform well on this question. The following extract from the mark scheme identifies the type of response which was required:

generally there was a small increase between 1900 and 1950; less than 3 or 4 per 1000; it fluctuated between 1900 and 1950; some years between 1900 and 1950 saw a decrease/1905/1920/1935; most rapid decrease was 20 per 1000 in 1920: increase was much more rapid from 1950 onwards; up to 30 per 1000; rate of increase decreased especially from 1980 onwards; to about 14 per 1000

(c) Generally this question was well answered, with many candidates focusing well on government policies. China was usually the example used and there were some excellent details included. However, it was pleasing also to see in-depth answers covering pro-natalist policies, such as those in Singapore. Some candidates, whilst clearly referring to relevant government policies, did not always make it clear how the points they made were related to population growth, this particularly applied to issues such as improvements in education and health care.

Question 2

- (a)(i) Most candidates gave a correct definition of a nucleated settlement, although some wrongly referred to the grouping together of 'settlements'.
 - (ii) Most candidates could suggest one reason for the linear shape of Saxby All Saints, usually the significance of the main road. Few were able to give a second idea, though evidence from Fig. 3A suggests that the steep slope may have prevented expansion to the east and marshy (or flood prone) land may have prevented it to the west.
 - (iii) The task here was to describe the distribution and many candidates did not seem to be familiar with this command, many limiting their answers again to comments about the roads. The extract below from the mark scheme identifies the type of points which candidates could have included and it would be worth familiarising future candidates with this type of exercise:

Dispersed/spread out/1 to 3 km away from each other; in lines/linear pattern; north – south; on or around 30 metres/below 60 metres/lowland; on gently sloping land; both sides/east and west of river; at least a 2 km away from River Ancholme; closer together east of river; along roads; northern part of map/north of Brigg

- (iv) Those candidates who had commented on little other than the roads in (iii) scored few available here. More perceptive candidates referred in addition to water supply developed the ideas of avoiding flooding, being sheltered by the higher land and/or usin sloping land for building.
- (b)(i) Educational, medical and entertainment services were common answers, although surprisingly few candidates managed to score the full three marks which were available here. Some, it seems, were not familiar with the word 'services', referring instead to where people might obtain work in the market towns. There were few precise references to retail services and some candidates gave examples of low order retail services which people would have access to in their villages, and therefore be unlikely to travel far for.
 - (ii) This question differentiated well, although the number of candidates who scored full marks was disappointing. Most gave basic responses which at least showed their understanding that the sphere of influence of the settlements were influenced by their size. Some gained further credit for reference to their being likely to have different orders of service provision and/or the significance of competition from surrounding towns, in the case of Holbeach. Whilst most candidates focused on the differences in size of the two spheres of influence, relatively few also focused on differences in their shapes.
- (c) There was a wide range of responses, marks were often gained from reference to the multifunctional growth of large settlements. There was a general lack of knowledge of specific geographical features and historical reasons for growth of settlements chosen. There were some very good responses about the growth of tourist resorts but it was difficult at times to ascertain if candidates were writing about one resort or tourism in the country as a whole. Weak answers did not give a settlement or gave a country instead, and some weaker candidates tried to use all the prompts and wrote about all the listed functions, usually in an unnamed town or city! This is an ideal illustration of the value of using a settlement which is local, or at least in the same country and therefore familiar to candidates.

An example follows for Liverpool to illustrate the specific geographical nature of points which could be made. It also illustrates how such an answer should be place specific rather than based on generic points:

Liverpool is a port:
located on estuary of Mersey river;
which provided deep water anchorage;
and sheltered anchorage;
there was space for the expansion of warehouse facilities;
it is on the opposite side of the Atlantic to USA which encouraged trade;
and has a hinterland of industrial towns/cotton manufacturing;
with well developed road/rail communications;
the Manchester Ship Canal further trade with inland areas etc

Question 3

- (a)(i) Most candidates correctly identified the screes as evidence that weathering had taken place, however a common incorrect answer was 'bare rock' or just 'rock', which in itself is not evidence of weathering.
 - (ii) The best answers defined weathering by referring to the breakdown of rock 'in situ' by elements of the weather, and erosion by referring to moving agents such as rivers and wind. Unfortunately many candidates confused the two terms, or wrote an answer which was far too vague for credit. Many definitions of erosion referred to soil erosion and read more as definitions of transportation.
 - (iii) Whilst some candidates showed good knowledge here others confused the processes by which a river erodes its channel with methods of transportation or with lateral, vertical and headward erosion, or indeed with weathering processes.

- (b)(i) Many candidates were able to gain full marks for adequately describing features cracks, the bare rock and the mountains, although it was evident from the attempts by from some Centres that observation and description from a photograph was a skill rarely pospite the reference to 'features of the landscape', it was surprising how many weak candimentioned the walking stick!
 - (ii) If freeze-thaw was identified as the correct weathering process occurring in the temperate area shown, the candidate usually went on to score full marks by describing the process well. Many failed to link the question with temperate areas and produced lengthy and irrelevant accounts of exfoliation.
 - (iii) This differentiated well, with well-prepared candidates introducing the required comparative element, and referring to the significance of higher temperature and rainfall in tropical areas, with full explanations, particularly relating to types of chemical and biological weathering. Weaker candidates failed to compare or made brief, simplistic points. Again exfoliation answers were evident, despite the question reference to the humid tropics rather than the tropical deserts.
- (c) Many well balanced answers were seen, which discussed the advantages and disadvantages of the multi-purpose scheme, although from some candidates there was lack of clarity in thinking regarding the use of the river before damming and the use of the lake after damming. In addition some candidates used the diagram to devote lengthy answers to the difficulties of site construction or 'rocks falling into the water'.

Question 4

- (a)(i) Having worked out that the lowest temperature was 26 C and the highest 29 C a considerable number of candidates failed to then work out the range of 3 C.
 - (ii) An impressive number of candidates worked out the annual rainfall correctly. The two most common errors were adding the monthly totals and then dividing by twelve or using the temperature scale rather than the scale for rainfall.
 - (iii) Despite the bold print, some candidates did not restrict their answers to features shown on Fig. 6B. Generally, however, candidates of all abilities scored well on this simple task.
 - (iv) This proved to be much more challenging and was not answered well by many candidates. Descriptions of vegetation or climate were frequently given without the link between the two. To be successful candidates needed to explain how characteristics of natural vegetation and climate are interlinked, rather than simply describing those characteristics (e.g. there is abundant vegetation due to the hot/wet climate; the forest is evergreen due to lack of a cold season/limited seasonal change).
- (b)(i) This was very well answered.
 - (ii) Most candidates were well versed in concerns over rainforest destruction and many scored high marks.
- (c) Unfortunately many were not so well versed in basic climatology and excellent answers, though seen, were few in number. Many candidates seemed to have little or no idea of the factors involved, or merely mentioned "on the equator". Weaker candidates wrote about vegetation, desertification or simply described the climates or listed factors (e.g. latitude, wind direction) without applying them to the two types of climatic zones.

Question 5

- (a)(i) Generally well answered.
 - (ii) Most candidates were at least able to refer to lack of skills/education as a reason for many people in LEDCs working in the primary sectors. Others also mentioned that fact that many LEDCs had large rural populations and many were subsistence farmers, or focused on the lack of capital or technology which restricted the growth of manufacturing and service industries. Vague statements such as 'there are lots of jobs in the primary sector/there are not many secondary or tertiary jobs' were not worthy of credit.

WW. D

- (iii) This was well answered. Most candidates classified the workers correctly, although candidates did not understand the task, just picking out one of the Cubans mentioned, waitress.
- (iv) This was well answered and most candidates scored at least two marks. The majority understathe meaning of the three sectors, and that tourism and services expansion would be likely to result in an expansion of the tertiary sector, or that increasing mechanisation and/or drift from the land would be likely to result in a decrease of the primary sector. A small minority simply described the present situation.
- (b)(i) This differentiated well. Those gaining three marks usually obtained them by stating that primary exports had decreased, export of secondary products had increased and then they gave at least one relevant figure. Those who failed to get maximum marks did so either because they failed to mentioned primary and secondary industry (focusing instead on individual products), or they gave no figures to back up their statements. Some just gave figures to back up the decrease in primary exports but did not mention or give secondary examples. The weakest candidates did not understand secondary and primary.
 - (ii) Many responses were brief or off the point, indeed some gave responses which would have been more relevant to part (c). Those candidates who picked up marks often did so for simple references to labour supply, demand and production for the export market, but few really developed their ideas well to explain why the high technology industries are important in NIC. For example 'there is a suitable workforce' is indeed true, however reference to the cheap labour, the availability of large numbers of potential workers, and the fact that many are skilled or educated would have seen basic answers being developed into ones which were much more highly rewarded.
- (c) This was the one of the most successful of the case studies from the point of view of marks scored, though examples, if given, were not always relevant to NICs. Whilst marks were available for both positive and negative impacts, they were usually scored for positive impacts. Most candidates successfully wrote at length about jobs, income, education, health, leisure and infrastructure.

Question 6

- (a) In each of parts (i) and (ii) many candidates correctly interpreted the graph, however figures quoted in (ii) were not always accurate enough for credit.
 - (iii) There were examples of excellent full mark answers but many candidates did not really understand the role of the greenhouse gases in trapping the long wave radiation from the earth, and there were many where ozone depletion was wrongly incorporated into answers, blamed for the increasing intensity of the sun's rays and confused with the greenhouse effect.
 - (iv) This was usually well answered with much relevant reference to human activities responsible for carbon dioxide emissions (e.g. burning of fossil fuels), CFCs (e.g. from aerosol sprays) and methane (e.g. from cattle grazing, padi fields). Also the role of deforestation was well explained by many candidates.
- (b)(i) Most candidates were able to understand, to a greater or lesser extent, why Tuvalu is at risk from global warming. The global rise in sea level, in conjunction with the low-lying nature of the islands was often correctly mentioned, though some candidates went into unnecessary detail about the reasons for the rise in sea level, repeating much of their earlier responses given in a (iii) and (iv).
 - (ii) This differentiated well and there were some very well thought-out responses, typically relating to the imminence of the threat and the size and height of Tuvalu compared with the USA and Australia. In addition, the relative roles of Tuvalu and the USA/Australia were effectively discussed in relation to their creation of greenhouse gases.

Sul Com

www.PapaCambridge.com This wide-ranging question allowed a lot of scope for candidates and it differentiated (c) it was an example of a question where the most effective case studies tended to be the from the candidates' local areas or at least within their own country. There were some case studies, which if chosen with care, often scored highly by describing a specific human a in a named location and its effects. Examples of the negative impacts of tourism on the nati environment were particularly well used, from a diverse range of localities. As in 2(c), weaker candidates wrote about a number of areas and/or activities in the hope that something would gain credit, and invariably such answers tended to revert to deforestation and global warming and its consequences, whatever activity or area was chosen.

GEOGRAPHY

Paper 2217/02 Paper 2

General Comments

Candidates were entered from 42 Centres across 15 countries. As may be expected, the candidates' responses varied greatly between Centres and across countries, with the most noticeable variations relating to candidates' interpretation of the map extract for **Question 1**.

It is recognised that some Centres may have difficulty in getting access to appropriate map extracts so Centres are encouraged to keep the extracts from previous examinations and to use them to support candidates in developing their map reading skills. Some Centres have in the past returned the maps but CIE does not require them.

The questions in **Section A** that were answered well by many candidates were **Question 2** parts **a** and **b**, **Question 3**, **Question 4** especially part **a**, **Question 6** part **c** and **Question 7**. There were very few questions that many candidates clearly found difficult, these being **Question 1(a)**, **(b)**, and **(g)**.

Extracts from a variety of candidates' scripts in **Section A** are quoted below in italics to illustrate the sort of responses that were awarded full marks. They are not in any way intended to be perfect or model answers. They may contain inaccuracies and superfluous information but are quoted as written by candidates including grammatical errors.

In **Section B** some candidates chose **Question 8** but their knowledge of coastal processes was a little disappointing. The great majority opted for **Question 9**, tackling the environmental consequences of a factory, for which they were better prepared. Heeding the command and focus words of each question would improve the performance of candidates and it would be beneficial if these words were underlined or ringed by candidates so they are fully aware of the demands of each question before they respond. Candidates should also include data in their answers.

The final sections of **Questions 8** and **9**, the conclusion and the further data collection, were poorly completed. Preparation for this paper should include extended writing of a conclusion and evaluative comments about the data collection and possible extensions to the investigation.

Comments on specific questions

Section A

Question 1

Questions (a) and (b) were intended to be relatively easy ones to introduce candidates to the examination. They required the use of the scale that was printed with the map. Some candidates had clearly tried to calculate the distance by scaling up by the ratio 50:000 but did so incorrectly; others missed out the questions altogether. Answers between 1600 m (or 1.6 km) and 1900 m (or 1.9 km) were accepted for part (a). A tolerance of 30 m was applied to the correct answer of 100 m for part (b). Part (c) was answered more successfully, as candidates referred to the various spot heights.

Most candidates scored some marks for part **(d)** but some failed to notice that the question referred only to Victoria Falls town so references to National Parks were not accepted.

Part **(e)** brought a wide variety of responses which was appropriate as there is a vast amount of information on the map. Those who did not score high marks did this mainly for one of the following two reasons:

Providing a list of features but with no indication as to where or even in what order they would be encountered.

www.PapaCambridge.com

Not concentrating on northing 14 but rather selecting features from many parts of the which would not have been seen from northing 14.

The answer below achieved full marks. Other candidates were less detailed about the drainage and but did refer to the railway, road, power line and the Masuwe Falls.

At the point 740140 there is relatively sparse bush and open grassland. Tributaries flow south east to Masuwe. The height is approximately 920 m. As one travels eastwards the land slopes very gently downwards. Along the journey one would come across many tributaries most of which are flowing into the Masuwe and in to the Zambezi. At grid 787140 the gorge of the Zambezi river is met. It extends to 350 m wide at that point. Vegetation remains of sparse bush and open grassland crossed with tributaries east of the gorge. There is a tributary Songwe at 814140. The land east of the Zambezi gorge gradually steepens to about 950, at 830140.

Part **(f)** was answered very well by some candidates who correctly identified the lack of drainage but dense bush on the higher ground along with sparse bush and many small streams in the lower areas. Other candidates failed to read the map correctly, either in terms of the vegetation and drainage or in giving incorrect 4 and 6 figure references, so that it was not always possible to determine which area they were writing about. The following account achieved 6 marks although it could do with punctuation and omits reference to the lack of any drainage on the high plateau.

The natural vegetation at 700115 is a medium bush. As you go further up to the Chambonga river and its tributaries which drain 700121 to 700142 well the vegetation becomes sparse and the area is well drained but from 700142 – 700182 the vegetation is dense and from 700188 the region is well drained by small distributaries and the vegetation becomes sparse again to 700200.

Part **(g)** was not answered well by many candidates. Whilst some recognised that the constriction of the river (lake was accepted in answers) at the Falls was a factor, few noted that there was a height loss from the town to the bridge which required the major curve.

Question 2

Most candidates were able correctly to put the two countries on to the graph. Japan's energy consumption of 4 tonnes per head was correctly read by most candidates but some failed to earn the mark by omitting reference to 'tonnes'. '4' on its own was not adequate.

Whilst most candidates achieved some marks for part (c), the levels of interpretation varied greatly, as was expected. Many candidates referred to the relationship between energy/ CO_2 and levels of development. Although this was not shown on the graph, such an interpretation was credited. Whilst most saw the correlation between CO_2 and energy, far fewer candidates identified Canada and Australia as being anomalies, or exceptions to the pattern. The following answer, although it would have benefited from some punctuation, earned two marks for its succinct statement of the relationship and a further two for the two sets of examples.

The higher the energy consumption per person the higher the CO_2 output per person therefore a positive correlation e.g. USA 18.8 tonnes of CO_2 and 7.9 tonnes of oil approx and the lower the energy consumption the lower the CO_2 output per person e.g. Brazil 2 tonnes of CO_2 and 1 tonne of oil.

Answers to part **(d)** were expressed in many ways. References to levels of development gained credit (although not if it was a repeat of statements made in part **(a)**), as did reference to industrialisation and numbers of vehicles. The main error by some candidates was in relating energy use to population size. The figures were per person and both Canada and Australia are relatively small in terms of population.

Question 3

This question was well answered by many candidates. Where marks were lost it was due to noting only one type of energy that did not give off CO_2 , whereas there were 3 on the chart – nuclear, hydro and new renewables. Biomass was credited if given but not if they referred to wood.

Most recognised that sunlight was a commodity in plentiful supply for part (d), with better candidates going on to refer to it being renewable, non polluting and not requiring expensive transport networks.

rts of the re and his to

Question 4

Most candidates did well on part (a), although some did not go on to say how increased demanded benefit farmers.

The following answer earned both marks.

The diagram shows that tourism would bring about an increase in the demand for food. Local farmers ate therefore encouraged to grow and sell more, expanding their income and also increasing their standard of living.

For part **(b)** most gained one mark for referring to increased demand for buildings and roads. The second mark was awarded either for explaining how more taxes could benefit construction or for stating how construction and its workforce could benefit. A weakness for some was not distinguishing between the construction industry and industry in general.

There will be a demand for new buildings and international airports and roads to link them together. An increase in tourism also may increase income and taxes which contribute to improvements in infrastructure.

There was a good understanding of potential disadvantages of development with many referring to destruction of forests or farmland for the new buildings or possible problems of higher prices for local people not involved in tourist industry. A number referred to the payment of taxes as being a disadvantage yet the diagram focuses on the potential benefits of more taxes being paid because people are paid more and industry earns more. The response below is rather vague but nonetheless there was sufficient to be awarded two marks.

Box number 2

Disadvantage As tourists spend in the area, more and more of the facilities and amenities would be adjusted to cater for their needs shutting out access for the locals. An increase in buildings may force locals to surrender their land and move to areas that are not so favourable.

Question 5

Most candidates correctly gave two names for tropical storms though fewer identified seas or oceans as their source areas. The main weakness was in naming such areas. Whilst the Indian Ocean was accepted as it covered three source areas, the Pacific Ocean on its own was not credited because it was far too general. To gain the mark candidates needed to be more specific by referring to the tropics and/or compass points. When referring to areas or places, candidates need to be as precise as possible. The names of the tropics, the equator and continents were included on the map so that they could give clear locations. East or South East were accepted for the last blank though a surprising number mentioned many other points of the compass.

Question 6

This question was well answered by many. Most identified the work of the project as being to do with reafforestation, environmental education or similar. For part **(b)** candidates achieved two marks for recognising the terracing, however described, and then either describing how this reduced run off and erosion or referring to the vegetation cover which would bind the soil and also help to reduce erosion. Whilst vegetation, crops or bushes achieved the second mark, reference to trees did not as there are only a few trees in the far background and the question required candidates to study the photo.

The answer below scored both marks for part **(c)** as it covered both a concern for the future and a comment on the importance of environmental understanding.

It is important to include groups of children and teenagers in its work because they are the ones who would become adults of countries in some years and they would have to maintain the forest and teach the young generation how to preserve the environment.

eased demail. And the company of the control of the

Question 7

For part (a) it was pleasing to see that most candidates did compare then two growth rates and changes. One weakness, however, was candidates who gave figures to illustrate the changes but incorrect figures. Another weakness was candidates who did not note that the figures after 2005 were a projections. A maximum of 3 marks was available to candidates who wrote good answers but failed to distinguish the different nature of statistics for period after 2005.

Candidates generally gave sound reasons for the urban growth in part **(b)** although weaker answers gave the same reason in two ways. E.g. Better facilities for health care and education in the cities along with lack of such facilities in rural areas. The reasons needed to be different for two marks. The following response achieved both marks.

Reason 1 Rural areas lack enough facilities and amenities such as health centres and secondary education. This is known as rural push.

Reason 2 A possible increase in manufacturing industry and job opportunities would have people flocking to the cities.

Section B

Question 8

This was generally answered less well than **Question 9** and lower marks were awarded. Longshore drift as a process was little understood therefore candidates struggled with the function of groynes, the focus of the fieldwork, and their impact on longshore drift.

- (a) Examiners reported a very poor response to this question. It required a textbook style diagram of longshore drift to be drawn on Fig. 8 and the labelling of the prevailing wind at an angle to the beach and the movement of beach material from left to right. The box required an explanation linking the prevailing wind direction to determine the angle of the wave bringing material onto the beach (swash) and the return of the material (backwash) perpendicular to the beach under the force of gravity.
- (b) Many candidates scored the first mark for suggesting candidates could share the workload and help each other by working in groups. The second part also was generally well answered by appropriately suggesting that by completing two profiles then a comparison could be made. The answer of simply 'more accurate' did not score unless it was qualified with clear reasoning. Although the data collection technique of using a pantometer was unknown to many, there was generally a satisfactory response with candidates recognising the need to place the instrument at the LWM, ensure it was vertical and read the angle of the slope by using the protractor. This process needs to be repeated to reach the back of the beach. This is not a common method but at least one Centre submitting their fieldwork during this session used this instrument. It would have been beneficial if candidates had read the information more carefully, focused on the function of the instrument (i.e. to read slope angle) and knew the purpose of a transect line in data collection.
- (c) It was heartening to note that more candidates had protractors available for this question although precision was still an issue which restricted marks. Many candidates accurately measured 1.3 m height difference, although a common mistake was to use the width data for the calculation. The best responses for the task were precisely worded height or width differences and specific comment on the gentler gradient of beach 2(b). Candidates who supported their comment with data were also given credit.
- (d) The bar graph was generally completed well by all candidates and there was successful calculation of the average width, although plotting a horizontal line at 10 m on the graph was less successful.

oth rates and the changes but a safter 2005 were the changes but failed to

- The demands of this question were poorly followed and many candidates failed to section. The key words directed the candidate to revisit the map and the table of result data collection sites. The mark scheme allowed descriptive comment of the different wind the sites. The pattern which candidates should identify is that all (a) sites are wider and with angles than (b) sites. If data was quoted then marks could be awarded. Any explanation for pattern again illustrated a very poor understanding of longshore drift as the movement of sedimentalong a beach, i.e. from (b) sites to (a) sites and that groynes trap the sediment causing the (a) sites to be wider and steeper.
- This question aimed to stretch the candidates' understanding beyond the data collection sites to beach X. Many candidates recognised that the beach would probably have less sediment so a lower width and height. Very frequently this was followed by 'because the marina would shelter the beach' but the 'describe' command word did not allow marks to be awarded. However in the next section which required reasoning for their decision, it was very common for this not to be written and many candidates failed to score in this section.
- (g) The hypothesis was correct in that the groynes did trap sediment making the beaches higher and wider. However the more able candidates recognised that this also caused some sites to be narrower and credit was awarded for this. Examiners reported that the use of data was rare despite the clear listing of the demands of this section. This question often scored low marks because the candidates did not understand the role of longshore drift and groynes shown by the data. The limitations of the data were generally not commented upon or tended to consist of vague ideas about student error. Precision and the use of data would significantly improve achievement in this question.

Question 9

- (a) The command words for this question were 'on the field sketch', 'label' and 'complete the sketch'. Although most candidates drew onto the field sketch the railway and an area to show the settlement, many ignored this instruction and either just added further labels or added words to the photograph. The precision of the responses was disappointing to examiners, with the most successful labelling being the working quarry area.
- (b) The definitions of primary and secondary sources of data are a familiar question to this paper. Therefore the responses usually were rewarded with two marks although the less able candidates concentrated too much on the provided newspaper article and did not answer the question. The majority of candidates recognised that the factory brought employment. The systems diagram required the candidate to identify just the process within the cement factory and the outputs of the factory. The function of the factory is to produce cement and the process to do this is the combining of the raw materials by heating them in a furnace. Too many candidates listed extraction, transport and monitoring as factory processes. The identification of the outputs was more successful as cement and waste heat and fumes. Rarely were the full three marks awarded.
- (c) Systematic sampling allows the students to question local people throughout the settlement. It is also an easier method than using random sampling. The candidates often scored one mark in this section but precise reasoning was uncommon. Generally the pie chart was constructed accurately but often a title was not included or the key created did not match the one used on the graph. Again care and heeding the command words would improve scores. The accuracy and overall presentation of the graphs did vary considerably and some Centres had prepared their candidates well for this type of question. The mark scheme for the description of the pattern shown by the data includes that air pollution has the highest amount of concern but litter is not seen as important. Many candidates scored two marks here and the better responses grouped together sources of noise and avoided listing the results.
- (d) It was generally pleasing to see the responses to this question and many candidates showed a good understanding of the issues. Acid rain, climate change and respiratory diseases were the most common answers and credit was given for further development of these problems. There was general confusion between ozone depletion and global warming and this was disappointing to read.

- www.papaCambridge.com This question required the candidate to note that the underground pipeline had no (e) local people but both the railway and the road could cause problems. The candidates identified the noise emitting from railway and road but marks were available for commen impact of the transport beyond the ideas provided to them. This question was generally completed, although the more able candidates often gained full marks.
- (f) The requirements of this question were for candidates to think for themselves about the type of data collection the students may undertake. The key words within this question are 'own survey', 'the local environment' and 'describe in detail'. Far too often any relevant ideas were very vague and imprecise. The most common response was for further questionnaires similar to those in (c) or linked to the health of the workers rather than the environment. Any details concerning how or why the data was collected were not included. An example of a good answer would be that the noise could be measured at different distances from the factory using a decibel meter. The days and the times would be listed, with reasoning and then further data collection about the soil or vegetation would also be outlined. Candidates should be more prepared for this style of question in future.