# www.papacambridge.com MARK SCHEME for the May/June 2010 question paper

### for the guidance of teachers

## 2217 GEOGRAPHY

2217/13 Paper 13 (Geographical Themes), maximum raw mark 75

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

| Page 2 | Mark Scheme: Teachers' version | Syllabus | A  |
|--------|--------------------------------|----------|----|
|        | GCE O LEVEL – May/June 2010    | 2217     | D. |

#### The features of the marking scheme

Each question carries 25 marks. Candidates cannot earn above the maximum marks available each sub section.

Cambridge.com The marking scheme attempts to give guidance about the requirements of each answer and lists a number of responses which will earn marks along with the general principles to be applied when marking each question. It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

The notation 'etc' at the end of an answer in the mark scheme signifies that there may well be other correct responses or examples that can be given credit. Providing the statement is true, relevant to the question asked and not repetition of a previous point made credit should be given.

A point made within one sub-section which is an answer to the question set in a different sub-section should not be given credit as each sub-section asks different questions which require independent answers.

The mark scheme uses semi colons (;) to separate marks and diagonals to separate alternative answers.

During coordination the mark scheme is modified to add points agreed after discussion or to delete any points not allowed. All examiners should ensure that their modified scheme is fully up-to-date before marking begins.

#### Marking mechanics.

Point marking is used for sections (a) and (b) of each question, although marks are available in specified questions for development of appropriate points. Ticks should be used to clearly indicate the wording on a script where a mark has been allowed. Where a development point has been allowed the letter 'D' should be placed adjacent to the tick. The number of ticks should always be equal to the total number of marks awarded, the mark for each sub-section should be added up and placed in the margin at the end of the sub-section. The total mark for the entire question should be added and transferred to the front of the script.

Where a candidate makes a point which is not quite sufficient for credit an upturned 'V' insert symbol should be used. If after careful consideration a mark is awarded which gives 'benefit of doubt' to the candidate the letter 'J' should be placed adjacent to the tick (i.e. the candidate has 'just' achieved the mark).

#### Levels of response marking is used for section (c) of each question.

Thus it is the quality of the response which determines which level an answer is achieved rather than the quantity of statements contained within it. However once assigned to a level the mark achieved within that level is determined by the number of points made.

Levels 1 and 2 are distinguished by whether statements are simple (level 1) or developed/elaborated (level 2). A candidate can immediately enter L2 by making developed points without making any L1 statements. In order to achieve L3 a candidate must have already reached the top end of L2 -his/her answer should have a clear example, and the answer must be place specific as well. (7 marks – L3).

Where statements are assigned levels by the examiner this should be indicated by the use of L1, L2 and L3 next to the statements. A summary of the overall level and mark awarded should be written at the end of the answer. Ticks should not be used on answers which are marked using levels of response marking.

| Page 3       Mark Scheme: Teachers' version       Syllabus         (a) (i)       Divide population by area/number of people divided by area/or written as a for 1 mark         (ii)       A Africa/Europe/North America/South America/Oceania/America(s)         B       Asia         2 @ 1 mark         (iii)       Ideas such as: andity/lack of precipitation/lack of rainfall/dry; no drinking water/dehydration/difficult to survive without water (it is a basic need); (no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif to farm/food production is difficult/yields are low; poor soils/sand/bare rock/infertile soil; deserts are poorly served by communications/isolated/poor road networks/lac transport; few economic opportunities in most deserts/lack of jobs/lack of resources; high temperatures which lead to high evaporation rates so no water, etc         3 @ 1 mark         (iv)       Ideas such as: Around an oasis; Around rivers where they flow through arid areas; Towns of strategic importance; Market tow; etc         4 @ 1 mark or development         (b)       (i)         Ideas such as: In coastal area/on the coast/near the sea; In south/south east/north east (regions); In cluster; In the East (of the country); In a line; Construction and and action of a line of the coast/near the sea |      |
|--|------|
| <ul> <li>2 @ 1 mark</li> <li>2 @ 1 mark</li> <li>(iii) Ideas such as:<br/>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc</li> <li>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around an oasis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   |      |
| <ul> <li>2 @ 1 mark</li> <li>2 @ 1 mark</li> <li>(iii) Ideas such as:<br/>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc</li> <li>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around an oasis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   | 16ri |
| <ul> <li>2 @ 1 mark</li> <li>2 @ 1 mark</li> <li>(iii) Ideas such as:<br/>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc</li> <li>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around an oasis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   | .9   |
| <ul> <li>2 @ 1 mark</li> <li>2 @ 1 mark</li> <li>(iii) Ideas such as:<br/>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc</li> <li>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around an oasis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   |      |
| <ul> <li>(iii) Ideas such as:<br/>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc<br/>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   |      |
| <ul> <li>aridity/lack of precipitation/lack of rainfall/dry;<br/>no drinking water/dehydration/difficult to survive without water (it is a basic need);<br/>(no water) to irrigate crops/can't irrigate crops/maintain good pasture/keep cattle/dif<br/>to farm/food production is difficult/yields are low;<br/>poor soils/sand/bare rock/infertile soil;<br/>deserts are poorly served by communications/isolated/poor road networks/lac<br/>transport;<br/>few economic opportunities in most deserts/lack of jobs/lack of resources;<br/>high temperatures which lead to high evaporation rates so no water; etc<br/>3 @ 1 mark</li> <li>(iv) Ideas such as:<br/>Around an casis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   | [2]  |
| <ul> <li>(iv) Ideas such as:<br/>Around an oasis;<br/>Around rivers where they flow through arid areas;<br/>Mining settlement/production of oil/gas (any mineral or resource);<br/>Growth of tourist resorts;<br/>Towns of strategic importance;<br/>Market town; etc</li> <li>4 @ 1 mark or development</li> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>   |      |
| <ul> <li>Around an oasis;</li> <li>Around rivers where they flow through arid areas;</li> <li>Mining settlement/production of oil/gas (any mineral or resource);</li> <li>Growth of tourist resorts;</li> <li>Towns of strategic importance;</li> <li>Market town; etc</li> <li>4 @ 1 mark or development</li> </ul> (b) (i) Ideas such as: <ul> <li>In coastal area/on the coast/near the sea;</li> <li>In south/south east/north east (regions);</li> <li>In clusters;</li> <li>In the East (of the country);</li> <li>In a line;</li> </ul>   | [3]  |
| <ul> <li>(b) (i) Ideas such as:<br/>In coastal area/on the coast/near the sea;<br/>In south/south east/north east (regions);<br/>In clusters;<br/>In the East (of the country);<br/>In a line;</li> </ul>  |      |
| In coastal area/on the coast/near the sea;<br>In south/south east/north east (regions);<br>In clusters;<br>In the East (of the country);<br>In a line;   | [4]  |
| Correspond with towns and cities; etc  |      |
| 3 @ 1 mark   | [3]  |

| Page 4 | Mark Scheme: Teachers' version | Syllabus 74 r |
|--------|--------------------------------|---------------|
|        | GCE O LEVEL – May/June 2010    | 2217 202      |
|        |                                | S.            |

 (ii) Reasons such as: differences in relief; high lands are not densely populated; difficult to build (dev);for communications (dev) less than 200 metres sparsely populated; possible flood risks (dev); differences in precipitation; areas above 2000 mm rain sparsely populated; as this creates rainforest (dev); difficult to penetrate (dev); coastal location encourages trade; thus development of industry/settlement/tourism (dev) etc

5 @ 1 mark or development

[5]

#### (c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail explaining why the government is worried by rapid population growth.

(e.g. people do not have enough resources, lack of work, inadequate food supplies, poor access to education, poor access to health care, overcrowded housing, traffic congestion, atmospheric pollution, inadequate water supply/sanitation, overuse of agricultural land/overgrazing, deforestation/loss of natural vegetation etc)

Level 2 (4–6 marks)

Uses named example

More developed statements explaining why the government is worried by rapid population growth.

(e.g. lack of work which leads to poverty, inadequate food supplies which cause death by starvation/malnutrition, poor access to education so people remain unqualified, poor access to health care leads to high death rates, overcrowded housing with inadequate basic amenities etc)

(NB max 5 if no named example)

Level 3 (7 marks)

Uses named example (e.g. Bangladesh).

Comprehensive and accurate statements explaining why the government is worried by rapid population growth, including some place specific reference.

(e.g. lack of work which leads to poverty/many people living on streets in cities like Dhaka, inadequate food supplies which cause death by starvation/malnutrition, poor access to education so people remain unqualified, traffic congestion as there are far too many vehicles on the roads especially in cities such as Dhaka, overuse of agricultural land on floods plains of Brahmaputra/Ganges leads to loss of soil fertility/lower yields, widespread deforestation for firewood on slopes of rural land around Chittagong encourages soil erosion etc) [7]

NB: Example must be LEDC/NIC

| Page 5  | 5  | Mark Scheme: Teachers' version   | Syllabus                |     |
|---------|--|--|-------------------------|-----|
|         |  | GCE O LEVEL – May/June 2010  | 2217 230                |     |
| (a) (i) | 12 n   | nillion/11.8 million (Must state million)  | Syllabus<br>2217 apacan | 76. |
|         | 1 ma   | ark  |                         | 103 |
| (ii)    | Mun  | nbai (New) Delhi Bangalore Lucknow   |                         |     |
|         |  | arks for all 4 in correct positions<br>ark for 2/3 in correct positions  |                         |     |
|         | 2 ma   | arks   |                         | [2] |
| (iii)   | inad<br>rapio<br>lack<br>pove  | s such as:<br>equate housing stock/not enough houses;<br>d increase of population/lots of migrants;<br>of local authority investment/Government can't affo<br>erty of people/cannot afford to buy houses/unemplo<br>to build them themselves; etc  |                         |     |
|         | 3@   | 1 mark   |                         | [3] |
| (b) (i) | wate<br>elec<br>sani<br>refus<br>clinic<br>scho                              | enities such as:<br>er tank on roof/piped water/running water/taps/clear<br>tricity/lights;<br>tation/sewage disposal/toilets;<br>se collection/disposal;<br>cs/hospitals/send doctors or nurses;<br>pols/education/training/skills;<br>oved roads/communications/(building) public transp   |                         |     |
|         | 3@   | 1 mark   |                         | [3] |
| (ii)    | it is of<br>enco<br>disp<br>lose<br>they<br>it do<br>it wil<br>cons<br>stror | s such as:<br>extreme/harsh/against human rights/cruel/forced to<br>ourage violence/resentment/rioting;<br>laced people will have nowhere to live;<br>all possessions/belongings;<br>will build squatter settlements elsewhere/live on str<br>es not solve the problem long term;<br>I be very expensive/funds could be put to more<br>structive use/some people think it is a waste of mon<br>ng community spirit is lost;<br>cts badly on government or country; etc | reets;                  |     |

4 @ 1 mark

| Page 6 | Mark Scheme: Teachers' version  | Syllabus Syllabus                     |       |
|--------|---|---------------------------------------|-------|
|        | GCE O LEVEL – May/June 2010   | Syllabus<br>2217 Apac                 |       |
| (iii)  | Ideas such as:<br>it will solve the problem in the long term;<br>as the rural areas will become more attractive place<br>less people will move to the cities;<br>as they will be able to increase output of food (dev)/<br>and sell produce (dev);<br>thus bringing in money to rural areas(dev);<br>it may encourage people from cities to move back to<br>which will trigger development (dev); etc | es to live (dev);<br>/more food(dev); | bilds |
|        |   |                                       |       |

(c) Levels of response marking Level 1 (1–3 marks)

Statements including limited detail which explain reasons for rural to urban migration, **either** pulls **or** pushes.

(e.g. more jobs, better services, not enough food, better standard of living/quality of life, poverty, better housing, better schools, better healthcare etc)

Level 2 (4–6 marks) Uses named example (must have 1 example) More developed statements which explain reasons for rural to urban migration, **either** pulls **or** pushes.

(e.g. more jobs in the informal sector/factories/or examples, well paid jobs, greater access to **range of** services or examples such as schools/hospitals/clinics, can buy food from markets/shops, housing with electricity/gas; etc)

NB Max 5 if no named example

Level 3 (7 marks)

Uses 2 named examples. (e.g. Caatinga to Rio de Janeiro) Comprehensive, accurate statements, referring to **both** pulls and pushes.

(e.g. some farmland in Caatinga unproductive due to drought, people living in countryside lost best quality agricultural land by Sao Franciso river when reservoirs were been built, they can make money in informal sector by offering shoe shine/selling fruit on Copacabana Beach, the city offers hope e.g. basic concrete houses are being built with piped water and sewage pipes, even in the favelas such as Rocinha the people have better access to primary health care than in the countryside)

NB: Must refer to both pulls and pushes for L3.

[7]

| Page 7                      | Mark Scheme: Teachers' version  | sion Syllabus    |       |  |
|-----------------------------|---|------------------|-------|--|
|                             | GCE O LEVEL – May/June 2010   | 2217             |       |  |
| <b>(a) (i)</b> 3            | 4 – 35  |                  | anny. |  |
| 1                           | mark  |                  | 1990  |  |
| (E<br>M<br>M<br>E<br>R<br>F | deas such as:<br>Bare) rock surface/sandstone/resistant rock;<br>May have rock pools;<br>May be covered with seaweed;<br>Exposed at low tide/covered at high tide;<br>Remains of former cliff base/at foot of cliff;<br>Flat/gently sloping;<br>Smooth; etc | Syllabus<br>2217 |       |  |
| 2                           | 2 @ 1 mark  |                  | [2]   |  |
| , v<br>∧<br>N               | Differences such as:<br>Aore sand at Y/less sand at X;<br>Aore shingle at X/less shingle at Y;<br>Aore pebbles at X/less pebbles at Y.  |                  |       |  |
| 3                           | @ 1 mark  |                  | [3]   |  |
| s<br>r<br>b                 | deas such as:<br>wash in direction of predominant wind;<br>noves materials at (oblique) angle;<br>ackwash at right angle/90º/straight back to sea;<br>naterials move in zig-zag fashion; etc  |                  |       |  |
| 4                           | @ 1 mark  |                  | [4]   |  |
| B<br>B<br>C<br>L<br>H       | Features such as:<br>Bay;<br>Beach;<br>Cliffs;<br>andslip;<br>Headland;<br>Vave cut platform; etc   |                  |       |  |
|                             | @ 1 mark  |                  | [3]   |  |

| Page 8 |   | Syllabus<br>2217 AnaCo  |
|--------|---|-------------------------|
|        | GCE O LEVEL – May/June 2010                             | 2217 23                 |
| (ii)   | Ideas such as:  | Camb                    |
| • • •  | e.g. Bay:   | 76                      |
|        | Features are formed by either erosion or deposition;    |                         |
|        | outcrop of less resistant rock/weak rock/soft rock;     |                         |
|        | eroded rapidly by sea;                                  |                         |
|        | differential erosion occurs/hard rock erodes more slowl | ly than soft rock(dev); |
|        | by processes such as hydraulic action/abrasion etc (de  |                         |
|        | e.g. beach  | ,.<br>,.                |
|        | formed by constructive waves;                           |                         |
|        | stronger swash than backwash;                           |                         |
|        | materials deposited;                                    |                         |
|        | materials build up over time (dev);                     |                         |
|        |   |                         |

MAX 4 on any one feature

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing benefits and/or problems of living near the coast.

(e.g. fishing, tourism, ports, storms, coastal erosion, need to build bridges; etc)

Level 2 (4–6 marks)

Uses named example

More developed statements describing benefits and/or problems of living near the coast.

(e.g. ports can be set up and people make a living from inshore/deep sea fishing, tourism industry can be established giving jobs in hotels, ports grow up and industries will be attracted there to use the raw materials imported/export finished products, storms can damage housing/cause coastal flooding, coastal erosion can cause collapse of cliff top buildings, need to bridge/detour around estuaries; etc)

NB Max 5 if no named example

#### Level 3 (7 marks)

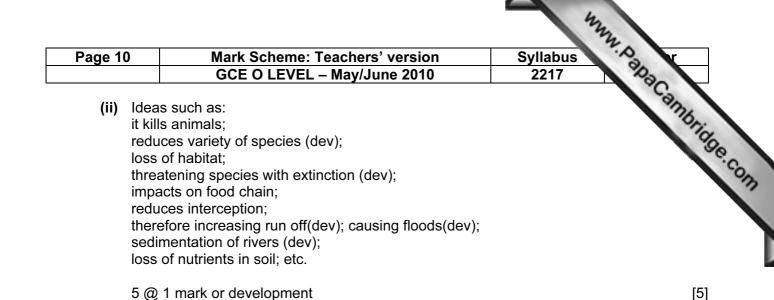
Uses named example (e.g. Californian coast).

Comprehensive and accurate statements describing benefits and problems of living near the coast, including some place specific reference.

(e.g. ports like Monterrey have grown up and people make a living from inshore/deep sea fishing, tourism industry has been established in San Francisco giving jobs in the restaurants along the Old Fisherman's Wharf, Oakland is a major port dealing with container traffic from Japan, Hong Kong and China, storms can damage housing/cause coastal flooding, coastal erosion can cause collapse of cliff top buildings in Cambria, need to bridge estuaries by Golden Gate Bridge etc) [7]

NB: Annotate 'b' for benefits and 'p' for problems.

| Page 9  | )   | Mark Scheme: Teachers' version Sylla   | abus S r |
|---------|---|--|----------|
|         |   | GCE O LEVEL – May/June 2010 22   | 17 23    |
| (a) (i) |   | ather is the condition of the atmosphere at a specific tim<br>ate is average/what is expected at different times of year /ye   |          |
|         | 1 ma  | ark  | 3        |
| (ii)    | Both  | ilarities such as:<br>a are found in Africa/South America;<br>a are found between the tropics etc  |          |
|         | Rain<br>dese<br>dese<br>rainf   | erences such as:<br>nforests are found around equator, deserts around tropics<br>erts are further away from equator;<br>erts on western sides of land masses, rainforests across the<br>forests found on islands, deserts are not;<br>th America/Australia have deserts but no rainforest; etc |          |
|         | NB:   | Annotate ✓s and ✓d   |          |
|         | 2@  | 1 mark   | [2]      |
| (iii)   | high<br>deso<br>dry v   | is such as:<br>pressure in deserts;<br>cending air in deserts;<br>winds/trade winds blow to deserts/across Australia;<br>ources of water to evaporate/no clouds; etc   |          |
|         | 3@  | 1 mark   | (3)      |
| (iv)    | hund<br>ever<br>decid<br>diffe<br>cand<br>shru<br>eme<br>liana<br>drip<br>buttr | asites/epiphytes;<br>tip leaves;<br>ress roots; etc  |          |
|         | 4@  | 1 mark or development  | [4]      |
| (b) (i) | logg<br>cattle<br>for p<br>to gr<br>so m<br>to bu<br>com                        | ns such as:<br>ing/selling wood/for making furniture;<br>e ranching;<br>planting plantations/rubber trees;<br>row cash crops;<br>nining can take place/quarrying or examples;<br>uild settlement/to relocate people from the cities;<br>munications – roads/railways;<br>P; etc                |          |
|         |   |  |          |



(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail **describing** characteristics of natural vegetation of tropical desert.

(e.g. scattered/sparse vegetation, seeds/plants only flower/grow for short periods, narrow/spiky leaves, long roots/wide spreading roots search for water, some plants store water, plants grow around oases; etc)

Level 2 (4–6 marks) Uses named example More developed statements **describing and explaining** characteristics of natural vegetation of tropical desert.

(e.g. Low precipitation/aridity results in scattered/sparse vegetation, seeds/plants remain dormant during long dry spells, narrow/spiky leaves reduce rates of evapotranspiration/because of high temperatures, long roots/wide spreading roots search for water as it is so dry; little cover of soil/sand/bare rock surfaces so few plants grow; some plants/cacti store water in order to survive long periods of drought, plants grow around oases where water is available; etc)

NB Max 5 if no named example

Level 3 (7 marks)

Uses named example (e.g. Sahara Desert).

Comprehensive and accurate statements describing and explaining characteristics of natural vegetation of tropical desert, including some specific reference to **place or species of plants**.

(e.g. Low precipitation/aridity results in scattered/sparse vegetation, Joshua Tree remains dormant during long dry spells,

narrow/spiky leaves reduce rates of evapotranspiration/because of high temperatures, creosote bush has long roots/wide spreading roots search for water as it is so dry; little cover of soil/sand/bare rock surfaces so few plants grow; xerophytes/saguaro cactus stores water in order to survive long periods of drought, plants grow around oases where water is available; etc ) [7]

| GCE O LEVEL – May/June 2010         211           (a) (i) China         1 mark           1 mark         1 mark           (ii) US(A)/America;<br>Russia.         2 @ 1 mark         [2]           (iii) Ideas such as:<br>Increase;<br>S30 to \$130 per tonne/more than \$30 but less than \$40 – \$130 – \$135;<br>Especially since 2007/and in 2004 increase;<br>Remained fairly stable to 2003;<br>But fluctuated 2004 to 2003;<br>Decrease 2005 and 2006/2001 – 2002/2001 – 2003; etc         [3]           Reserve 1 mark for use of dates/statistics.<br>Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.         3 @ 1 mark         [3]           (iv) Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>polutes the atmosphere/leads to global warming;<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)         [4]           (b) (i) Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a inver/lake or sea;<br>fat/stable land (for building/large area;<br>local workforce;<br>rail/road transport (for coal);<br>near ports for imports of coal; etc         3 @ 1 mark         [3]           (ii) Ideas such as:<br>release of carbon dixide;<br>which is a greenhouse gas (dev);<br>which accumulates in atmosphere(dev);<br>suns rays penetrate layer of gases;<br>bounce off earth is surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc   | Page 1  | 1  | Mark Scheme: Teachers' version   | Syllabus 2                |      |
|--|---------|--|--|---------------------------|------|
| 2 @ 1 mark       [2]         (iii)       Ideas such as:<br>Increase;       S30 to \$130 per tonne/more than \$30 but less than \$40 - \$130 - \$135;<br>Especially since 2007/and in 2004 increase;<br>Remained fairly stable to 2003;<br>But fluctuated 2004 to 2006;<br>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc       Reserve 1 mark for use of dates/statistics.<br>Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.       [3]         (iv)       Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)         4 @ 1 mark or development       [4]         (b)       (i)       Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a river/lake or sea;<br>flat/stable land (for coal);<br>near ports for imports of coal; etc       [3]         (ii)       Ideas such as:<br>release of Carbon dioxide;<br>which is a greenhouse gas (dev);<br>which is a greenhouse gas (dev);<br>which is a greenhouse gas (dev);<br>which is surface;<br>bounce off earth's surface;<br>bounce off earth's surface;<br>bounce off earth's surface;       [3]  |         |  | GCE O LEVEL – May/June 2010  | 2217 230                  |      |
| 2 @ 1 mark       [2]         (iii)       Ideas such as:<br>Increase;       S30 ber tonne/more than \$30 but less than \$40 - \$130 - \$135;<br>Especially since 2007/and in 2004 increase;<br>Remained fairly stable to 2003;<br>But fluctuated 2004 to 2004;<br>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc       Reserve 1 mark for use of dates/statistics.<br>Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.       [3]         (iv)       Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)       [4]         (b)       (i)       Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a river/lake or sea;<br>flat/stable land (for building/large area;<br>local workforce;<br>rail/road transport (for coal);<br>near ports for imports of coal; etc       [3]         (ii)       Ideas such as:<br>release of carbon dioxide;<br>which is a greenhouse gas (dev);<br>which is a greenhouse gas (dev);<br>which is ourmate a in atmosphere(dev);<br>sums rays penetrate layer of gases;<br>bounce off earth's surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc  | (a) (i) | Chin   | າa   | 3                         | 76   |
| 2 @ 1 mark       [2]         (iii)       Ideas such as:<br>Increase;       S30 ber tonne/more than \$30 but less than \$40 - \$130 - \$135;<br>Especially since 2007/and in 2004 increase;<br>Remained fairly stable to 2003;<br>But fluctuated 2004 to 2004;<br>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc       Reserve 1 mark for use of dates/statistics.<br>Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.       [3]         (iv)       Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)       [4]         (b)       (i)       Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a river/lake or sea;<br>flat/stable land (for building/large area;<br>local workforce;<br>rail/road transport (for coal);<br>near ports for imports of coal; etc       [3]         (ii)       Ideas such as:<br>release of carbon dioxide;<br>which is a greenhouse gas (dev);<br>which is a greenhouse gas (dev);<br>which is ourmate a in atmosphere(dev);<br>sums rays penetrate layer of gases;<br>bounce off earth's surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc  |         | 1 ma   | ark  |                           | 1dg  |
| 2 @ 1 mark       [2]         (iii)       Ideas such as:<br>Increase;       S30 ber tonne/more than \$30 but less than \$40 - \$130 - \$135;<br>Especially since 2007/and in 2004 increase;<br>Remained fairly stable to 2003;<br>But fluctuated 2004 to 2004;<br>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc       Reserve 1 mark for use of dates/statistics.<br>Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.       [3]         (iv)       Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)       [4]         (b)       (i)       Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a river/lake or sea;<br>flat/stable land (for building/large area;<br>local workforce;<br>rail/road transport (for coal);<br>near ports for imports of coal; etc       [3]         (ii)       Ideas such as:<br>release of carbon dioxide;<br>which is a greenhouse gas (dev);<br>which is a greenhouse gas (dev);<br>which is ourmate a in atmosphere(dev);<br>sums rays penetrate layer of gases;<br>bounce off earth's surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc  | (ii)    |  |  |                           |      |
| <ul> <li>(iii) Ideas such as:<br/>Increase;</li> <li>\$30 to \$130 per tonne/more than \$30 but less than \$40 - \$130 - \$135;<br/>Especially since 2007/and in 2004 increase;<br/>Remained fairly stable to 2003;<br/>But fluctuated 2004 to 2008;<br/>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc</li> <li>Reserve 1 mark for use of dates/statistics.<br/>Max 2 on dates/statistics.<br/>Remaining mark(s) need some interpretation.</li> <li>3 @ 1 mark [3]</li> <li>(iv) Ideas such as:<br/>coal is non-renewable/it will run out;<br/>thus will need to find alternative in future (dev);<br/>costs are not stable;<br/>and have increased rapidly since 2007/now high cost;<br/>so costs of electricity will increase (dev);<br/>pollutes the atmosphere/leads to global warming;<br/>pollitical pressure/global pressure/pressure from environmental groups to reduce<br/>dependence (dev)</li> <li>4 @ 1 mark or development [4]</li> <li>(b) (i) Factors such as:<br/>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>proximity to acento dioxide;<br/>which is a greenhouse gas (dev);<br/>which accumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth's surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   |         |  |  |                           |      |
| <ul> <li>\$30 to \$130 per tonne/more than \$30 but less than \$40 - \$130 - \$135;<br/>Especially since 2007/and in 2004 increase;<br/>Remained fairly stable to 2003;<br/>But fluctuated 2004 to 2008;<br/>Decrease 2005 and 2006/2001 - 2002/2001 - 2003; etc</li> <li>Reserve 1 mark for use of dates/statistics.<br/>Max 2 on dates/statistics.<br/>Max 2 on dates/statistics.<br/>Max 2 on dates/statistics.</li> <li>Max 2 on dates/statistics.</li> <li>Max 2 on dates/statistics.</li> <li>(iv) Ideas such as:<br/>coal is non-renewable/it will run out;<br/>thus will need to find alternative in future (dev);<br/>costs are not stable;<br/>and have increased rapidly since 2007/now high cost;<br/>so costs of electricity will increase (dev);<br/>pollutes the atmosphere/leads to global warming;<br/>pollitical pressure/global pressure/pressure from environmental groups to reduce<br/>dependence (dev)</li> <li>4 @ 1 mark or development [4]</li> <li>(b) (i) Factors such as:<br/>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which is a greenhouse gas (de</li></ul> | (iii)   | Idea   | as such as:  |                           |      |
| Max 2 on dates/statistics.<br>Remaining mark(s) need some interpretation.<br>3 @ 1 mark [3]<br>(iv) Ideas such as:<br>coal is non-renewable/it will run out;<br>thus will need to find alternative in future (dev);<br>costs are not stable;<br>and have increased rapidly since 2007/now high cost;<br>so costs of electricity will increase (dev);<br>pollutes the atmosphere/leads to global warming;<br>political pressure/global pressure/pressure from environmental groups to reduce<br>dependence (dev)<br>4 @ 1 mark or development [4]<br>(b) (i) Factors such as:<br>proximity to coal/near coal mine;<br>availability of water/near a river/lake or sea;<br>flat/stable land (for building)/large area;<br>local workforce;<br>rail/road transport (for coal);<br>near ports for imports of coal; etc<br>3 @ 1 mark [3]<br>(ii) Ideas such as:<br>release of carbon dioxide;<br>which is a greenhouse gas (dev);<br>which accumulates in atmosphere(dev);<br>suns rays penetrate layer of gases;<br>bounce off earth's surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc  |         | \$30<br>Espe<br>Rem<br>But f                             | to \$130 per tonne/more than \$30 but less than \$40<br>ecially since 2007/and in 2004 increase;<br>nained fairly stable to 2003;<br>fluctuated 2004 to 2008;  |                           |      |
| <ul> <li>(iv) Ideas such as:<br/>coal is non-renewable/it will run out;<br/>thus will need to find alternative in future (dev);<br/>costs are not stable;<br/>and have increased rapidly since 2007/now high cost;<br/>so costs of electricity will increase (dev);<br/>pollutes the atmosphere/leads to global warming;<br/>political pressure/global pressure/pressure from environmental groups to reduce<br/>dependence (dev)</li> <li>4 @ 1 mark or development [4]</li> <li>(b) (i) Factors such as:<br/>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which accumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth's surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   |         | Max  | 2 on dates/statistics.   |                           |      |
| <ul> <li>coal is non-renewable/it will run out;<br/>thus will need to find alternative in future (dev);<br/>costs are not stable;<br/>and have increased rapidly since 2007/now high cost;<br/>so costs of electricity will increase (dev);<br/>pollutes the atmosphere/leads to global warming;<br/>political pressure/global pressure/pressure from environmental groups to reduce<br/>dependence (dev)</li> <li>4 @ 1 mark or development [4]</li> <li>(b) (i) Factors such as:<br/>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which accumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth's surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   |         | 3@   | 1 mark   |                           | [3]  |
| <ul> <li>(b) (i) Factors such as:<br/>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which a ccumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth's surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   | (iv)    | coal<br>thus<br>costs<br>and<br>so co<br>pollu<br>politi | is non-renewable/it will run out;<br>will need to find alternative in future (dev);<br>s are not stable;<br>have increased rapidly since 2007/now high cost;<br>osts of electricity will increase (dev);<br>utes the atmosphere/leads to global warming;<br>ical pressure/global pressure/pressure from er | nvironmental groups to re | duce |
| <ul> <li>proximity to coal/near coal mine;<br/>availability of water/near a river/lake or sea;<br/>flat/stable land (for building)/large area;<br/>local workforce;<br/>rail/road transport (for coal);<br/>near ports for imports of coal; etc</li> <li>3 @ 1 mark [3]</li> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which accumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth's surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   |         | 4@   | 1 mark or development  |                           | [4]  |
| <ul> <li>(ii) Ideas such as:<br/>release of carbon dioxide;<br/>which is a greenhouse gas (dev);<br/>which accumulates in atmosphere(dev);<br/>suns rays penetrate layer of gases;<br/>bounce off earth`s surface;<br/>but cannot escape through blanket of gases/are trapped(dev); etc</li> </ul>   | (b) (i) | prox<br>avail<br>flat/s<br>local<br>rail/r               | timity to coal/near coal mine;<br>lability of water/near a river/lake or sea;<br>stable land (for building)/large area;<br>l workforce;<br>road transport (for coal);  |                           |      |
| release of carbon dioxide;<br>which is a greenhouse gas (dev);<br>which accumulates in atmosphere(dev);<br>suns rays penetrate layer of gases;<br>bounce off earth`s surface;<br>but cannot escape through blanket of gases/are trapped(dev); etc  |         | 3@   | 1 mark   |                           | [3]  |
| 5 @ 1 mark or development [5]  | (ii)    | relea<br>whic<br>whic<br>suns<br>bour                    | ase of carbon dioxide;<br>ch is a greenhouse gas (dev);<br>ch accumulates in atmosphere(dev);<br>s rays penetrate layer of gases;<br>nce off earth`s surface;  | d(dev); etc               |      |
|  |         | 5@   | 1 mark or development  |                           | [5]  |

| Page 12 Mark Scheme: Teachers' version Syllabus |         |     |
|---|---------|-----|
|   | Page 12 | \$. |
| GCE O LEVEL – May/June 2010 2217                |         | Da  |

#### (c) Levels marking

#### Level 1 (1–3 marks)

ambridge.com Statements including limited detail describing problems of use of fuelwood for people and local natural environment.

(e.g. pollutes the atmosphere, causes health problems, lost productivity when collecting firewood, time consuming collecting wood, loss of tree cover, soil erosion; etc)

#### Level 2 (4–6 marks)

Uses named example

More developed statements describing problems of use of fuelwood for people and/or local natural environment.

(e.g. pollutes the atmosphere with smoke/chemicals such as CO2, causes health problems such as chest complaints/asthma/breathing difficulties, people cannot work in fields producing food if they are ill, time consuming walking long distances to collect wood, loss of tree cover causes soil erosion; etc)

NB Max 5 if no named example

#### Level 3 (7 marks)

Uses named example country or area, (e.g. Ethiopia).

Comprehensive and accurate statements describing problems of use of fuelwood for people and natural environment, including some place specific reference.

(e.g. pollutes the atmosphere with smoke/chemicals such as CO2, in squatter camps at Addis Ababa health problems caused such as chest complaints/asthma/breathing difficulties, in rural areas close to border with Eritrea people cannot work in fields producing food, time consuming walking long distances to collect wood, in northern region of Tigray loss of tree cover causes soil erosion; etc)

NB: Annotate with 'p' for people and 'e' for environment.

[7]

| Page 1  | 3   | Mark Scheme: Teachers' version   | Syllabus r   |
|---------|---|--|--|
|         |   | GCE O LEVEL – May/June 2010  | 2217   |
| (a) (i) | Qual<br>1 ma  | lity is reduced/gets worse/changes from good to bad  | Syllabus<br>2217<br>Budganburgan<br>Syllabus<br>2217<br>Syllabus<br>Syllabus<br>2217<br>Syllabus<br>2217<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllabus<br>Syllab |
|         |   |  |  |
| (ii)    | Run<br>Was<br>Was<br>Was<br>Joine                       | s such as:<br>off from rubbish tip;<br>te from factory;<br>te from sewage treatment works;<br>te from coal mine;<br>ed by polluted tributaries;<br>off from motorways; etc   |  |
|         | 2@  | 1 mark   | [2]  |
| (iii)   | chea<br>it is o<br>regu<br>enfo<br>of of<br>lack        | s such as:<br>ap way of disposal/can't afford to treat it;<br>quick/easy/convenient;<br>lations are not strict/no laws against it;<br>rcement of regulations is poor/corruption<br>ficials;<br>of technology to treat waste;<br>of education/unaware of damage caused; etc   |  |
|         | 3@  | 1 mark   | [3]  |
| (iv)    | bette<br>facto<br>enco<br>incin<br>mon<br>set u<br>ensu | s such as:<br>er treatment of sewage;<br>pries stop discharging waste into rivers/install filters;<br>puraging recycling of waste materials rather than dun<br>erate waste;<br>itoring of water quality;<br>up more strict regulations/apply laws;<br>ure regulations are enforced/fines/suspension/closure<br>cation re- impacts; etc |  |

4 @ 1 mark

[4]

| Page 1  | 4 M   | ark Scheme: Teachei  | s' version   | Syllabus Syllabus  |
|---------|---|--|--|--|
| •       |   | CE O LEVEL – May/  | lune 2010  | 2217 223   |
| (b) (i) | dust from cons<br>noise from con<br>fumes from ex<br>soil erosion (in<br>sedimentation<br>e.g. fish proce<br>woodland/scru<br>ecosystems th<br>food chain dis<br>loss of habitat<br>visual pollution<br>noise from con<br>fumes from ex<br>processing/sm<br>threats to fish<br>e.g. resort and<br>sand dune veg<br>ecosystems th<br>food chain dis<br>loss of habitat<br>noise from con<br>fumes from ex<br>over use of wa<br>litter from tour<br>waste from ho | :<br>stroyed;<br>ireatened;<br>rupted;<br>s;<br>n/change shape of land<br>struction;<br>nstruction/traffic/machin<br>hausts/traffic;<br>n cuttings);<br>in river; etc<br>ssing factory<br>ub/vegetation destroyed<br>ireatened;<br>rupted;<br>s;<br>n;<br>nstruction/traffic/machin<br>hausts/traffic;<br>nell;<br>stocks; etc<br>I golf course<br>getation destroyed/plan<br>ireatened;<br>rupted;<br>s;<br>nstruction/traffic/machin<br>ireatened;<br>rupted;<br>s;<br>nstruction/traffic/machin | nery;<br>hery;<br>hts/vegetation dest<br>nery;<br>vater;<br>dfill sites);  |  |
|         | 3 @ 1 mark  |  |  | I  |
| (ii)    | restricting size<br>conserve/restr<br>education of t<br>damage cause<br>employing peo<br>using local lab<br>using local pro<br>do not incorpo   | ict access to parts of c<br>ourists/golfers regardined<br>by their actions/beh<br>ople to clear up regular<br>our; keep money in loo<br>ovisions;<br>rate water features/fou   | ers; to reduce over<br>lunes/areas where<br>ng environmental<br>aviour (dev);<br>ly;<br>cal economy (dev);<br>intains on golf cour | rcrowding/noise/congestion (dev<br>sensitive species are growing;<br>issues; so they are aware of a<br>; positive multiplier effect (dev); |
|         |   | ust link to candidates d<br>dit on ideas/developme   | •  | ent.   |

5 @ 1 mark or development

|         |                                | · · · ·  |
|---------|--------------------------------|----------|
| Page 15 | Mark Scheme: Teachers' version | Syllabus |
|         | GCE O LEVEL – May/June 2010    | 2217     |

#### (c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing the benefits to people of an economic activity

Cambridge.com (e.g. more jobs are created, foreign exchange/income, better schools/hospitals built development of infrastructure/water/electricity/transport, meet people of nationalities/cultural exchange; retention of culture/traditions, increased market for local farmers/food is bought in markets/by hotels, sales of local products; etc

#### Level 2 (4–6 marks)

Uses named example

More developed statements which describe the benefits to people of an economic activity (e.g. tourism).

(e.g. more jobs are created for local people so they earn regular income, foreign exchange/income spent on education/hospitals, development of infrastructure such as water/electricity/transport etc, meet people of different nationalities so cultural exchange; retention of culture/traditions as they are tourist attractions, increased market for local farmers as food is bought in markets/by hotels, sales of local craft items; etc)

NB Max 5 if no named example

#### Level 3 (7 marks)

Uses named example (e.g. tourism in Mahe, Seychelles).

Comprehensive and accurate statements including some place specific reference.

(e.g. more jobs are created for people in Beau Vallon Bay so they earn regular income, foreign exchange/income spent on new hospitals built in Victoria, improvement of water supply system to Anse Royale; development of airport to international standard by extension of runway, meet people of different nationalities, especially people from Europe, so cultural exchange; retention of Creole cooking and cultural dances as they are tourist attractions, increased market for local farmers as food is bought in markets in Victoria/by hotels/restaurants in Beau Vallon Bay, sales of local craft items such as shells and corals; etc)

NB: No marks awarded for description of economic activity.

[7]