

# Cambridge IGCSE<sup>™</sup> (9–1)

#### GEOGRAPHY

Paper 1 MARK SCHEME Maximum Mark: 75 0976/12 October/November 2021

Published

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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This document consists of **18** printed pages.

## **Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

| Question  | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1(a)(i)   | A measure of how crowded an area is/number of people in an area in<br>comparison to its size;<br>Number/amount of people living in a certain area/given area/per unit of<br>area/square kilometre/square mile.                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     |
| 1(a)(ii)  | Ideas such as:<br>Lack of water/lack of rain/drought/dry/arid;<br>Temperatures too high/very high/very hot/extremely hot/unbearably hot;<br>Sandstorms/wind blows sand etc<br>2 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2     |
| 1(a)(iii) | Ideas such as:<br>Steep slopes/relief/high land/mountainous/rugged/hilly/uneven/limited<br>amount of flat land;<br>Difficult access/poor roads/isolation/remote/poor communications;<br>Lack of farmland/producing food is difficult/poor soils/bare rock;<br>cold temperatures/ice/snow;<br>Lack of employment;<br>Forested/dense vegetation etc<br>3 @ 1 mark                                                                                                                                                                                                                                                                                        | 3     |
| 1(a)(iv)  | Ideas such as:         Water/river is available for drinking/washing/fishing/water crops/HEP/for factories etc;         Fertile land/good soil for food production/agriculture (farming);         Wood/stone/trees/forests for building;         Wood/coal for burning/cooking/heating;         Mining/quarrying/minerals provide employment/jobs/industry/wealth etc.         4 @ 1 mark         Note:         1 Accept reverse ideas         E.g. If there is no water people will not be able to irrigate crops         2 The uses of the resources are not exhaustive and some may be interchangeable, however each use can only be credited once. | 4     |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                  | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1(b)(i)  | Ideas such as:                                                                                                                                                                                                                                                                                                                                          | 3     |
|          | uneven;                                                                                                                                                                                                                                                                                                                                                 |       |
|          | clustered/many people live on/close to Equator;<br>clustered/many people live in south/near Tanzania/near Uganda (border);<br>clustered/many people live in south west/Lake Victoria;<br>clustered/many people live south east/near Indian Ocean;<br>many live close to Nairobi/capital city etc.                                                       |       |
|          | few live/scattered in north/east/NW/NE/centre/near<br>Ethiopia/Somalia/Lake Turkana etc.                                                                                                                                                                                                                                                                |       |
|          | 3 @ 1 mark                                                                                                                                                                                                                                                                                                                                              |       |
|          | Note: Accept 'high density' as an alternative to 'many people'.                                                                                                                                                                                                                                                                                         |       |
| 1(b)(ii) | Ideas such as people live in/are attracted to (stated or implied):                                                                                                                                                                                                                                                                                      | 5     |
|          | areas which have <u>more rainfall</u> /are likely to receive more than 750 mm<br>rainfall (in 4 years out of 5);<br>So agriculture/food production will be possible/drinking water is<br>available/good water supply (dev);                                                                                                                             |       |
|          | close to <u>Lake Victoria;</u><br>For water supply/fishing/tourism etc. (dev);                                                                                                                                                                                                                                                                          |       |
|          | <u>highland</u> areas/land over 1000 metres;<br>Where temperatures will be cooler (dev);                                                                                                                                                                                                                                                                |       |
|          | close to <u>railway;</u><br>So communications are easier/transport available/to move goods (dev);                                                                                                                                                                                                                                                       |       |
|          | close to <u>port;</u><br>To export/import/trade/business/commerce (dev);                                                                                                                                                                                                                                                                                |       |
|          | close to <u>Nairobi/capital (important) city/important (major) towns;</u><br>Where work/industries are available/major services (or examples) are<br>provided (dev) etc.                                                                                                                                                                                |       |
|          | 5 @ 1 mark or development                                                                                                                                                                                                                                                                                                                               |       |
|          | <ul> <li>Note: 1 Points can be credited for development or stand-alone ideas.</li> <li>2 Development ideas are just examples and are not exhaustive</li> <li>3 Candidates may refer to either areas where lots of people live or where few people live but do not double credit.</li> <li>4 Only allow 1 × dev mark for each underlined idea</li> </ul> |       |

| Question         | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Marks      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Question<br>1(c) | Answer         Levels marking         Level 1(1–3 marks)         Statements including limited detail which describe the impacts of overpopulation.         Level 2(4–6 marks)         Uses named example.         More developed or linked statements which describe the impacts of overpopulation.         (Note: Max 5 if no named or inappropriate example)         Level 3(7 marks)         Uses named example.         Comprehensive and accurate statements which describe the impacts of overpopulation, including some place specific reference. | Marks<br>7 |
|                  | Content Guide:         Answers are likely to refer to:         -       Employment         -       housing         -       pressure on services         -       lack of food         -       lack of water supplies         -       spread of disease         -       pressure on health services         -       pressure on educational facilities         -       traffic congestion         -       air pollution         -       water pollution         -       deforestation         -       crime etc                                             |            |
|                  | <u>Place specific reference is likely to consist of:</u><br>Named parts of the chosen country,<br>Population data etc.                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |

| Question  | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Marks |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 2(a)(i)   | Area of countryside/farmland/not built up etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1     |
|           | 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |
| 2(a)(ii)  | Kenema = town in NW of area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2     |
|           | Gofor = village 8kms SW of Majihun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|           | 2 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| 2(a)(iii) | General store (1 mark)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3     |
|           | Reasons such as;<br>Small population/not many customers (for other services);<br>It is viable/profitable/jeweller would not be able to make a profit;<br>Low order/other services are higher order;<br>It sells convenience goods;<br>It will be used regularly/every few days etc (2 marks)                                                                                                                                                                                                                                                                       |       |
|           | Note: Only credit reasoning if correct service selected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| 2(a)(iv)  | Ideas such as:<br>Konjo is far from Kenema/school is long distance from village/8 km<br>away/takes too long to get to school;<br>River has to be crossed;<br>Long detour to the bridge/no direct tracks (roads);<br>They have to travel along tracks/lack of availability of transport (or e.g.);<br>Many parents will want their children to work on the land/do domestic<br>work/look after elderly etc.;<br>Most people will not be able to afford secondary education/transport to<br>school;<br>Reluctance to allow girls to attend school etc.<br>4 @ 1 mark | 4     |
| 2(b)(i)   | A = Linear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3     |
|           | B = Dispersed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|           | C = Nucleated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |

| Question | Answer                                                                                                                                                                         | Marks |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 2(b)(ii) | Ideas such as:                                                                                                                                                                 | 5     |
|          | <u>relief;</u><br>E.g. linear settlements are along valley/dispersed settlements on flat<br>farmland/in mountainous areas (dev);                                               |       |
|          | <u>transport/access;</u><br>E.g. Linear settlements along main roads/nucleated settlements at road<br>junctions (dev)                                                          |       |
|          | <u>rivers/bridging points of rivers;</u><br>E.g. linear settlements in valleys/ nucleated where rivers can easily be<br>crossed (dev)                                          |       |
|          | <u>water availability;</u><br>E.g. nucleated settlements around water sources etc. (dev)                                                                                       |       |
|          | <u>land use/resource availability</u><br>E.g. dispersed if farmland                                                                                                            |       |
|          | <u>resource availability</u><br>E.g. nucleated if mining area (dev)                                                                                                            |       |
|          | topography/hills:<br>Defensive sites may lead to nucleated settlements (dev)                                                                                                   |       |
|          | 5 @ 1 mark or development                                                                                                                                                      |       |
|          | Note:1Points can be credited for development or stand-alone ideas.2Development ideas are just examples and are not exhaustive3Only allow 1 × dev mark for each underlined idea |       |

| Question | Answer                                                                                                                                                                                                                                                                    | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 2(c)     | Levels marking<br><u>Level 1</u> (1–3 marks)<br>Statements including limited detail which describe and/or explain the<br>characteristics of the Central Business District.<br><u>Level 2</u> (4–6 marks)                                                                  | 7     |
|          | Uses named example.<br>Developed or linked statements which describe and/or explain the<br>characteristics of the Central Business District.                                                                                                                              |       |
|          | (Note: Max 5 if no named or inappropriate example)<br><u>Level 3</u> (7 marks)<br>Uses named example.<br>Comprehensive and accurate statements which describe and explain the<br>characteristics of the Central Business District.<br>With some place specific reference. |       |
|          | <u>Content Guide:</u><br>Answers are likely to refer to:<br>High rise<br>Offices/businesses/examples<br>High order shops/services/or e.g.s<br>Specialist shops/examples<br>Entertainment facilities/examples<br>Traffic congestion<br>Pedestrianised<br>Statues/monuments |       |
|          | Large sphere of influence<br>High demand<br>High cost land<br>Good access etc.<br>Note: High order service (L1) such as jeweller (L1)                                                                                                                                     |       |

| Question  | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Marks |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 3(a)(i)   | С                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     |
|           | 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| 3(a)(ii)  | On/near/close to Equator;<br>within 20 degrees (N/S of Equator);<br>Extends to 30 degrees in small areas or e.g.s<br>South America, Africa and Asia (all needed)<br>2 marks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2     |
| 3(a)(iii) | Ideas such as:<br>They are close to the Equator/low latitudes;<br>Sun is (almost) overhead/high angle (90 degrees);<br>Concentrated rays/rays concentrated in small area/direct sunlight;<br>High/maximum insolation etc.<br>3 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3     |
| 3(a)(iv)  | Ideas such as:<br>Lack of clouds;<br>High pressure;<br>Descending air;<br>No/little evaporation/transpiration;<br>Far from water sources/water bodies/lack of rivers/lakes;<br>Winds blow over large areas of land/offshore winds/dry winds/Trade Winds;<br>Rain shadow;<br>Cold ocean currents etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4     |
| 3(b)(i)   | <ul> <li>4 @ 1 mark</li> <li>Ideas such as:<br/>More caused by <u>commercial</u> agriculture in South America/less caused by<br/>commercial agriculture in Africa;<br/><u>Commercial</u> South America 66% Africa 35%/31% more in South America;</li> <li>More caused by <u>subsistence</u> agriculture in Africa/less caused by<br/>subsistence agriculture in South America;<br/><u>Subsistence</u> South America 18% Africa 40%/22% more in Africa;</li> <li><u>Overall</u> agriculture/it causes more deforestation in South America/less in<br/>Africa;<br/><u>Overall</u> South America 84% Africa 75%/9% more in South America etc</li> <li>Main cause is commercial in South America but subsistence is main cause<br/>in Africa.</li> <li>Note: One mark reserved for statistics.</li> <li>3 @ 1 mark</li> </ul> | 3     |

| Question | Answer                                                                                                                                                                                         | Marks |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 3(b)(ii) | Ideas such as:<br>Logging/timber;<br>E.g. hardwoods or examples/high value wood/charcoal/firewood/paper<br>making/used for furniture/for export/to earn foreign currency/building<br>materials | 5     |
|          | Mining/quarrying/extract minerals;<br>E.g. for oil/iron ore etc.                                                                                                                               |       |
|          | Road building/railways/transport;<br>For access to resources/transport of timber/to connect areas of<br>mining/logging or e.g. Trans-Amazonian Highway;                                        |       |
|          | Settlement/build houses/growth of cities;<br>Resettlement schemes/increasing population growth;                                                                                                |       |
|          | Industrial development/build factories;<br>Processing of raw materials/resources or e.g.s;                                                                                                     |       |
|          | Dams/reservoirs;<br>For generation of HEP                                                                                                                                                      |       |
|          | Little regulation/enforcement of regulations;                                                                                                                                                  |       |
|          | Profit is being put before the environment etc.                                                                                                                                                |       |
|          | 5 @ 1 mark or development                                                                                                                                                                      |       |
|          | Note:1Points can be credited for development or stand-alone ideas.2Development ideas are just examples and are not exhaustive3Only allow 1 × dev mark for each idea                            |       |

| Question | Answer                                                                                                                                                                                                     | Marks |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 3(c)     | Levels marking                                                                                                                                                                                             | 7     |
|          | Level 1 (1–3 marks)<br>Statements including limited detail which explain how deforestation is<br>threatening the local natural environment.                                                                |       |
|          | <u>Level 2</u> (4–6 marks)<br>Uses named example                                                                                                                                                           |       |
|          | Developed or linked statements which explain how deforestation is threatening the local natural environment.                                                                                               |       |
|          | (Note: Max 5 if no named or inappropriate example.)                                                                                                                                                        |       |
|          | Level 3 (7 marks)<br>Comprehensive and accurate statements including some place detail.                                                                                                                    |       |
|          | <u>Content Guide:</u><br>Answers are likely to include the following ideas:<br>Species killed/extinction<br>Food chains/ecosystems disrupted<br>Habitats destroyed<br>Soil erosion<br>Leaching of minerals |       |
|          | High surface run off<br>flooding<br>river pollution<br>air pollution etc.                                                                                                                                  |       |
|          | <u>Place reference is likely to consist of:</u><br>Names of places within the rainforest<br>Species etc.                                                                                                   |       |
|          | Note: Threats should be local not global so do not credit<br>Temperature increase<br>Rainfall decrease<br>Evaporation/transpiration decrease<br>Ice melting etc.                                           |       |
|          | Plants die/animals die = $1 \times L1$                                                                                                                                                                     |       |
|          | Note: Country names not acceptable for e.g.                                                                                                                                                                |       |

| Question  | Answer                                                                                                                                                                                                                                                                                                           | Marks |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 4(a)(i)   | Wearing away/washing/taking away (of the coast/sand/materials/soil/cliffs) by the sea/waves                                                                                                                                                                                                                      | 1     |
|           | 1 mark                                                                                                                                                                                                                                                                                                           |       |
| 4(a)(ii)  | Fig. 4.1 = an area of cliffs with a stack, stump and large wave-cut platform                                                                                                                                                                                                                                     | 2     |
|           | Fig. 4.3 = a sandy bay with separate, small areas of wave cut platform exposed at low tide                                                                                                                                                                                                                       |       |
|           | 2 @ 1 mark                                                                                                                                                                                                                                                                                                       |       |
| 4(a)(iii) | Corrasion(abrasion) = pebbles/rocks/load in waves/water thrown at/hits<br>cliff/land                                                                                                                                                                                                                             | 3     |
|           | Corrosion = (minerals in) rocks dissolved by seawater/acids/chemicals;<br>materials removed in solution                                                                                                                                                                                                          |       |
|           | Hydraulic action = weight/power/force/pressure of waves/water (destroying cliffs)/waves expanding air in cracks etc.                                                                                                                                                                                             |       |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                       |       |
| 4(a)(iv)  | Ideas such as:<br>fishing;<br>work in port/harbour/trade/exports/imports/port industry;<br>scenic beauty;<br>fresh air/cooler temperatures;<br>quiet/peaceful;<br>work/income from tourist industry/hotels etc.<br>agriculture or example etc.                                                                   | 4     |
|           | 4 @ 1 mark                                                                                                                                                                                                                                                                                                       |       |
| 4(b)(i)   | Changes such as:<br>Spit has become longer/extended/increased from 7–10 to<br>15–20 km/by 5–13 km/gets closer to Kakinada;<br>(Extended) to north/NW;<br>Gap in spit has been filled/it is now continuous/joined to land;<br>(End has) curved/has hooked/encircles bay;<br>gaps have opened near river mouth etc | 3     |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                       |       |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Marks |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 4(b)(ii) | Ideas such as:<br>Longshore drift;<br><b>Prevailing/main</b> winds from south;<br>Winds approach at angle;<br>Swash/waves approach at angle/same angle as wind/from SE;<br>Backwash at right angles;<br>Zigzag movement;<br>Beach materials move from south to north;<br>Winds/waves from east/wave refraction recurves spit at end etc.<br>5 @ 1 mark or development                                                                                                                                                                                                                                                                                                                                                   | 5     |
| 4(c)     | Levels marking         Level 1(1–3 marks)         Statements including limited detail which describe/explain how coastal erosion is managed.         Level 2(4–6 marks)         Uses named example         Developed or linked statements which explain how coastal erosion is managed.         (Note: Max 5 if no named or inappropriate example.)         Level 3(7 marks)         Comprehensive and accurate statements which explain how coastal erosion is managed including some place specific reference.         Content Guide:         Answers are likely to include the following ideas:         (Sea) walls         Groynes         Beach replenishment         Gabions         Revetments         Mangroves | 7     |
|          | <ul> <li>Planting vegetation on cliffs</li> <li>Managed retreat etc.</li> <li><u>Place specific reference is likely to consist of:</u><br/>Locational details</li> <li>Specific details of schemes – cost/size etc</li> <li>Note: Example used must be smaller scale than a country (e.g. Mauritius = Max 5). It could be a specific settlement.</li> <li>In order to achieve L2 candidates need to explain rather than give developed description.</li> </ul>                                                                                                                                                                                                                                                          |       |

| Question  | Answer                                                                                                                                                                                                                                    | Marks |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 5(a)(i)   | (Farming) to sell output/make a profit/as a business                                                                                                                                                                                      | 1     |
|           | 1 mark                                                                                                                                                                                                                                    |       |
| 5(a)(ii)  | Fertile soils;<br>Gentle slopes                                                                                                                                                                                                           | 2     |
|           | 2 @ 1 mark                                                                                                                                                                                                                                |       |
| 5(a)(iii) | Ideas such as;<br>Market available/sell the produce there;<br>Less transport costs;<br>Perishable items can be produced/they get products to the market quickly;<br>Workforce available;<br>Farming supplies or e.g.s seed/machinery etc. | 3     |
|           | 3 @ 1 mark                                                                                                                                                                                                                                |       |
| 5(a)(iv)  | Ideas such as:<br>rainfall/precipitation/drought etc.;<br>E.g. rice will only grow if there is sufficient rainfall; in dry areas goats may be<br>kept                                                                                     | 4     |
|           | Temperatures/hot/cold etc.;<br>E.g. in cold areas sheep/goats is more likely                                                                                                                                                              |       |
|           | Length of growing season/frost free days;<br>E.g. rice needs growing season of 190 days; frost will kill sugar cane/fruit;                                                                                                                |       |
|           | Amount of sunlight;<br>E.g. Cereal crops need sunshine for ripening                                                                                                                                                                       |       |
|           | 4 @ 1 mark                                                                                                                                                                                                                                |       |
|           | Note: reverse ideas can be accepted.                                                                                                                                                                                                      |       |
| 5(b)(i)   | Ideas such as:<br>Livestock fed indoors;<br>Milking cows;<br>Ploughing;                                                                                                                                                                   | 3     |
|           | 3 @ 1 mark                                                                                                                                                                                                                                |       |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Marks |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 5(b)(ii) | Ideas such as:<br>If crops fail can rely on animals/spread the risk;<br>E.g. a wet summer may result in poor crops but grass will grow well and<br>cows produce lots of milk;<br>If animals suffer diseases crops will still grow;<br>If crop prices are low money still is being made from animal products;<br>Income received throughout the year;<br>Jobs spread throughout the year;<br>Crop waste can be used to feed animals;<br>Animal manure can fertilise soils for crop growing;<br>Allows use of fields to be rotated;<br>All types of land can be used;<br>E.g. steep slopes/infertile soils can be used for animals;<br>Different nutrients provided in diet ( i.e. subsistence farmers) etc.<br>5 @ 1 mark or development                                                                                                                                                                                                                                                                                                                                                                           | 5     |
| 5(c)     | Levels marking<br>Level 1(1-3 marks)<br>Statements including limited detail which explain why food shortages occur.<br>Level 2(4-6 marks)<br>Developed or linked statements which explain why food shortages occur.<br>Level 3(7 marks)<br>Comprehensive and accurate statements which explain why food shortages<br>occur, including some place reference.<br><u>Content Guide:</u><br>Answers are likely to refer to:<br>Increasing population<br>Loss of land to urbanisation etc<br>desertification<br>War<br>Drought<br>Lack of government investment<br>Flooding<br>Volcanic eruption/tsunami/earthquake<br>Production of cash crops/plantations rather than food crops<br>Poor distribution network<br>Corruption<br>Country cannot afford to import food etc.<br><u>Place specific reference is likely to consist of:</u><br>Names of places within chosen region/country<br>Specific details/statistics<br>Note: For the e.g. accept country, part of country or larger area (e.g. Sahel)<br>but desert names are not acceptable.<br>Drought = L1<br>Drought so crops/animals die/yield reduced = 1 × L2 | 7     |

| Question  | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                        | Marks |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 6(a)(i)   | An industry where raw materials/inputs changed into a final product/goods/useful materials.                                                                                                                                                                                                                                                                                                                                                   | 1     |
|           | 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
| 6(a)(ii)  | Outputs such as:<br>Aluminium;<br>Waste/red mud;<br>Fumes;                                                                                                                                                                                                                                                                                                                                                                                    | 2     |
|           | 2 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| 6(a)(iii) | Ideas such as:<br>Large amounts of raw material/bauxite are needed/bauxite is the <u>main</u> raw<br>material/input;<br>Bauxite is heavy/bulky/5 tonnes of bauxite are needed to make one tonne of<br>aluminium;<br>Only small amounts of other inputs/caustic soda are needed;<br>Bulk/weight is reduced in processing;<br>The finished product/aluminium is not heavy;<br>Transport costs are reduced/costs a lot to transport bauxite etc. | 3     |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| 6(a)(iv)  | Ideas such as:<br>Large amounts of electricity/energy are needed;<br>HEP is a cheap form of power/costs are reduced;<br>No need for electricity transmission grids over long distances;<br>Electricity will always be available/supplies will not run out;<br>If companies own the smelters they do not have to pay outside companies<br>for electricity etc.                                                                                 | 4     |
|           | 4 @ 1 marks                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |
| 6(b)(i)   | Ideas such as:<br>Roads/railways used for transportation of raw materials/finished<br>products/goods;                                                                                                                                                                                                                                                                                                                                         | 3     |
|           | Docks use for exporting/importing/trade/commerce;                                                                                                                                                                                                                                                                                                                                                                                             |       |
|           | Large urban population provides a market/workforce etc.                                                                                                                                                                                                                                                                                                                                                                                       |       |
|           | 3 @ 1 mark                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |

| Question | Answer                                                                                                                                                            | Marks |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 6(b)(ii) | Reasons could include reference to:<br>Lack of space/need to expand;<br>Too many other industries taking up the nearby space (dev)                                | 5     |
|          | The areas roads may be congested;<br>And much time will be wasted in traffic (dev)                                                                                |       |
|          | Excessive cost of land;<br>Cheaper land may be available on edge of city (dev)                                                                                    |       |
|          | Government incentives/disincentives or examples;<br>E.g. tax concessions, subsidies for locating in enterprise zones (dev)                                        |       |
|          | Consideration of areas where labour is cheaper/more available;<br>E.g. in LEDCs where wages are low, areas of high unemployment (dev)                             |       |
|          | Growth of new markets/closer to bigger market<br>In areas where population is growing rapidly (dev)                                                               |       |
|          | Move away from competitors;<br>So that they can sell items without competition (dev)                                                                              |       |
|          | Move to be close to suppliers/natural resources/other branches of company/<br>initial supplies of raw materials used up;<br>To reduce transport costs (dev);      |       |
|          | Near to an airport;<br>For access to international markets (dev)                                                                                                  |       |
|          | Authorities taking action about/complaints from residents <u>about</u> noise/air pollution etc;<br>Which would prevent them from producing at full capacity (dev) |       |
|          | <ul> <li>5 @ 1 mark or development</li> <li>Note:.</li> <li>1 Points can be credited for development or stand-alone ideas.</li> </ul>                             |       |
|          | <ul> <li>2 Development ideas are just examples and are not exhaustive</li> <li>3 Only allow 1 × dev mark for each idea</li> </ul>                                 |       |

| Question | Answer                                                                                                                                                                                                                                        | Marks |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 6(c)     | Levels marking                                                                                                                                                                                                                                | 7     |
|          | Level 1(1–3 marks)<br>Statements including limited detail which explain how sufficient water is supplied for industrial use.                                                                                                                  |       |
|          | Level 2(4–6 marks)<br>Uses named example.<br>More developed or linked statements which explain how sufficient water is<br>supplied for industrial use.                                                                                        |       |
|          | (Note: Max 5 if no named or inappropriate example)                                                                                                                                                                                            |       |
|          | <u>Level 3</u> (7 marks)<br>Uses named example.<br>Comprehensive and accurate statements including some place specific<br>reference.                                                                                                          |       |
|          | Content Guide:<br>Answers are likely to refer to:<br>Reservoirs/dams<br>Use of aquifer/underground water<br>Rainfall harvesting<br>Road tankers<br>Wells<br>Pipelines<br>Extraction from rivers<br>Water transfer schemes<br>Desalination etc |       |
|          | <u>Place specific reference is likely to consist of:</u><br>Names of places and schemes within chosen area/country<br>Specific details/statistics.                                                                                            |       |