

### Cambridge IGCSE™ (9-1)

GEOGRAPHY
Paper 1
MARK SCHEME
Maximum Mark: 75

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.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of 18 printed pages.

### Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

www.xtrapapers.com October/November 2021

### **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.

© UCLES 2021 Page 2 of 18

Question	Answer	Marks
1(a)(i)	A measure of how crowded an area is/number of people in an area in comparison to its size; Number/amount of people living in a certain area/given area/per unit of area/square kilometre/square mile.  1 mark	1
1(a)(ii)	Ideas such as: Lack of water/lack of rain/drought/dry/arid; Temperatures too high/very high/very hot/extremely hot/unbearably hot; Sandstorms/wind blows sand etc  2 @ 1 mark	2
1(a)(iii)	Ideas such as: Steep slopes/relief/high land/mountainous/rugged/hilly/uneven/limited amount of flat land; Difficult access/poor roads/isolation/remote/poor communications; Lack of farmland/producing food is difficult/poor soils/bare rock; cold temperatures/ice/snow; Lack of employment; Forested/dense vegetation etc  3 @ 1 mark	3
1(a)(iv)	Ideas such as: <u>Water/river</u> is available for drinking/washing/fishing/water crops/HEP/for factories etc; <u>Fertile land/good soil</u> for food production/agriculture (farming); <u>Wood/stone/trees/forests</u> for building; <u>Wood/coal</u> for burning/cooking/heating; <u>Mining/quarrying/minerals</u> provide employment/jobs/industry/wealth etc.  4 @ 1 mark  Note:  1	4

# Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

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

© UCLES 2021 Page 4 of 18

### Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(c)	Levels marking Level 1(1–3 marks)	7
	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.	
	Content Guide:	
	Answers are likely to refer to:	
	<ul><li>Employment</li><li>housing</li></ul>	
	pressure on services	
	- lack of food	
	<ul><li>lack of water supplies</li></ul>	
	<ul> <li>spread of disease</li> </ul>	
	<ul> <li>pressure on health services</li> </ul>	
	pressure on educational facilities	

© UCLES 2021 Page 5 of 18

traffic congestion air pollution water pollution deforestation crime etc

Population data etc.

Place specific reference is likely to consist of:

Named parts of the chosen country,

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; Small population/not many customers (for other services); It is viable/profitable/jeweller would not be able to make a profit; Low order/other services are higher order; It sells convenience goods; 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: Konjo is far from Kenema/school is long distance from village/8 km away/takes too long to get to school; River has to be crossed; Long detour to the bridge/no direct tracks (roads); They have to travel along tracks/lack of availability of transport (or e.g.); Many parents will want their children to work on the land/do domestic work/look after elderly etc.; Most people will not be able to afford secondary education/transport to school; Reluctance to allow girls to attend school etc.  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
	relief; E.g. linear settlements are along valley/dispersed settlements on flat farmland/in mountainous areas (dev);	
	transport/access; E.g. Linear settlements along main roads/nucleated settlements at road junctions (dev)	
	rivers/bridging points of rivers; E.g. linear settlements in valleys/ nucleated where rivers can easily be crossed (dev)	
	water availability; E.g. nucleated settlements around water sources etc. (dev)	
	land use/resource availability E.g. dispersed if farmland	
	resource availability E.g. nucleated if mining area (dev)	
	topography/hills: Defensive sites may lead to nucleated settlements (dev)	
	5 @ 1 mark or development	
	Note: 1 Points can be credited for development or stand-alone ideas. 2 Development ideas are just examples and are not exhaustive 3 Only allow 1 × dev mark for each underlined idea	

# Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

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

© UCLES 2021 Page 8 of 18

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

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

Question	Answer	Marks
3(c)	Levels marking	7
	Level 1 (1–3 marks) Statements including limited detail which explain how deforestation is threatening the local natural environment.	
	Level 2 (4–6 marks) 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) Comprehensive and accurate statements including some place detail.	
	Content Guide: Answers are likely to include the following ideas: Species killed/extinction Food chains/ecosystems disrupted Habitats destroyed	
	Soil erosion Leaching of minerals High surface run off flooding river pollution air pollution etc.	
	Place reference is likely to consist of: Names of places within the rainforest Species etc.	
	Note: Threats should be local not global so do not credit Temperature increase Rainfall decrease Evaporation/transpiration decrease Ice melting etc.	
	Plants die/animals die = 1 × 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 cliff/land	3
	Corrosion = (minerals in) rocks dissolved by seawater/acids/chemicals; 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: fishing; work in port/harbour/trade/exports/imports/port industry; scenic beauty; fresh air/cooler temperatures; quiet/peaceful; work/income from tourist industry/hotels etc. agriculture or example etc.	4
	4 @ 1 mark	
4(b)(i)	Changes such as: Spit has become longer/extended/increased from 7–10 to 15–20 km/by 5–13 km/gets closer to Kakinada; (Extended) to north/NW; Gap in spit has been filled/it is now continuous/joined to land; (End has) curved/has hooked/encircles bay; gaps have opened near river mouth etc	3
	3 @ 1 mark	

# Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

Question	Answer	Marks
4(b)(ii)	Ideas such as: Longshore drift; Prevailing/main winds from south; Winds approach at angle; Swash/waves approach at angle/same angle as wind/from SE; Backwash at right angles; Zigzag movement; Beach materials move from south to north; Winds/waves from east/wave refraction recurves spit at end etc.  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	7
	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 Planting vegetation on cliffs Managed retreat etc.  Place specific reference is likely to consist of:	
	Locational details Specific details of schemes – cost/size etc  Note: Example used must be smaller scale than a country (e.g. Mauritius = Max 5). It could be a specific settlement.	
	In order to achieve L2 candidates need to explain rather than give developed description.	

© UCLES 2021 Page 13 of 18

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

# Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

	Marks
deas such as:  f crops fail can rely on animals/spread the risk;  E.g. a wet summer may result in poor crops but grass will grow well and cows produce lots of milk;  f animals suffer diseases crops will still grow;  f crop prices are low money still is being made from animal products;  ncome received throughout the year;  Jobs spread throughout the year;  Crop waste can be used to feed animals;  Animal manure can fertilise soils for crop growing;  Allows use of fields to be rotated;  All types of land can be used;  E.g. steep slopes/infertile soils can be used for animals;  Different nutrients provided in diet ( i.e. subsistence farmers) etc.	5
Levels marking Level 1(1–3 marks) Statements including limited detail which explain why food shortages occur.  Level 2(4–6 marks) Developed or linked statements which explain why food shortages occur.  Level 3(7 marks) Comprehensive and accurate statements which explain why food shortages occur, including some place reference.  Content Guide: Answers are likely to refer to: Increasing population Loss of land to urbanisation etc Desertification  War Drought Lack of government investment Flooding Volcanic eruption/tsunami/earthquake Production of cash crops/plantations rather than food crops Poor distribution network Corruption Country cannot afford to import food etc.  Place specific reference is likely to consist of: Names of places within chosen region/country Specific details/statistics  Note: For the e.g. accept country, part of country or larger area (e.g. Sahel) Dut desert names are not acceptable.	7
	crops fail can rely on animals/spread the risk;  .g. a wet summer may result in poor crops but grass will grow well and ows produce lots of milk; animals suffer diseases crops will still grow; crop prices are low money still is being made from animal products; nocome received throughout the year; crop waste can be used to feed animals; nimal manure can fertilise soils for crop growing; Illows use of fields to be rotated; Ill types of land can be used; .g. steep slopes/infertile soils can be used for animals; ifferent nutrients provided in diet (i.e. subsistence farmers) etc.  @ 1 mark or development evels marking evel 1(1–3 marks) teatements including limited detail which explain why food shortages occur. evel 2(4–6 marks) eveloped or linked statements which explain why food shortages occur. evel 3(7 marks) comprehensive and accurate statements which explain why food shortages ccur, including some place reference.  content Guide: inswers are likely to refer to: increasing population oss of land to urbanisation etc esertification var brought ack of government investment looding folcanic eruption/tsunami/earthquake reduction of cash crops/plantations rather than food crops food distribution network corruption country cannot afford to import food etc.  Place specific reference is likely to consist of: lames of places within chosen region/country ipecific details/statistics lote: For the e.g. accept country, part of country or larger area (e.g. Sahel) ut desert names are not acceptable.

© UCLES 2021 Page 15 of 18

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: Aluminium; Waste/red mud; Fumes;	2
	2 @ 1 mark	
6(a)(iii)	Ideas such as: Large amounts of raw material/bauxite are needed/bauxite is the main raw material/input; Bauxite is heavy/bulky/5 tonnes of bauxite are needed to make one tonne of aluminium; Only small amounts of other inputs/caustic soda are needed; Bulk/weight is reduced in processing; The finished product/aluminium is not heavy; Transport costs are reduced/costs a lot to transport bauxite etc.	3
	3 @ 1 mark	
6(a)(iv)	Ideas such as: Large amounts of electricity/energy are needed; HEP is a cheap form of power/costs are reduced; No need for electricity transmission grids over long distances; Electricity will always be available/supplies will not run out; If companies own the smelters they do not have to pay outside companies for electricity etc.	4
	4 @ 1 marks	
6(b)(i)	Ideas such as: Roads/railways used for transportation of raw materials/finished 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: Lack of space/need to expand; Too many other industries taking up the nearby space (dev)	5
	The areas roads may be congested; And much time will be wasted in traffic (dev)	
	Excessive cost of land; Cheaper land may be available on edge of city (dev)	
	Government incentives/disincentives or examples; E.g. tax concessions, subsidies for locating in enterprise zones (dev)	
	Consideration of areas where labour is cheaper/more available; E.g. in LEDCs where wages are low, areas of high unemployment (dev)	
	Growth of new markets/closer to bigger market In areas where population is growing rapidly (dev)	
	Move away from competitors; So that they can sell items without competition (dev)	
	Move to be close to suppliers/natural resources/other branches of company/ initial supplies of raw materials used up; To reduce transport costs (dev);	
	Near to an airport; For access to international markets (dev)	
	Authorities taking action about/complaints from residents <u>about</u> noise/air pollution etc; Which would prevent them from producing at full capacity (dev)	
	5 @ 1 mark or development Note:.	
	<ol> <li>Points can be credited for development or stand-alone ideas.</li> <li>Development ideas are just examples and are not exhaustive</li> <li>Only allow 1 × dev mark for each idea</li> </ol>	

# Cambridge IGCSE (9–1) – Mark Scheme **PUBLISHED**

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

© UCLES 2021 Page 18 of 18