Cambridge IGCSE™

GEOGRAPHY

0460/11 October/November 2021

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.

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)	When <u>people</u> migrate/move/the movement of <u>people</u> from one place/country to another/live in a new location/move home	1
	1 mark	
1(a)(ii)	Areas or settlements such as: Agricultural/farming area; Village; Hamlet.	2
	2 @ 1 mark	
1(a)(iii)	Ideas such as: Economic migration/for employment; To escape persecution/refugees/asylum seekers/war/conflict; For education; For better health care; Lack of food supply; Lack of water/sanitation; Natural hazards or examples such as drought; Etc.	3
	3 @ 1 mark	
1(a)(iv)	Ideas such as: Some countries are overpopulated/other countries are underpopulated; Pressure on resources or e.g. such as housing/food/water/healthcare/education; Need for some countries to attract people to work/other countries have enough workers/skilled workers/do low paid/better paid jobs; Tax income/bigger market; Countries have different political views/attitudes/worries about crime/to avoid racial tension; Some countries belong to political unions which allow free movement of people; Some countries encourage migrants to attend educational institutions; Cultural exchange/dilution; Ageing population/attract people with families; Etc.	4
	4 @ 1 mark	
1(b)(i)	Ideas such as: More men/less women; Large proportion of economically active/few dependents; Males mainly aged 20 to 39/30 to 34 years old; Females mainly aged 15 to 29 years old; Females younger/males older; Few/small percentage over 55/60 years/old (dependent); Few/small percentage of young (dependent)/under 9 etc.	3

Question	Answer	Marks
1(b)(ii)	Ideas such as: Imbalanced population structure/high dependent population; Relatively few men remain/population mainly women; Lower fertility/birth rates; Reduction in economically active/workforce; Examples such as loss of farmers/teachers/skilled/educated; Returning migrants bring back skills; Jobs become available; Less money coming into households; Food production declines/abandoned farms/yields lower; Loss of social cohesion/families are split/loneliness; HIV/AIDS; Remittances/financial boost for families remaining; Less pressure on health/education services; Closure of schools/hospitals/businesses/lack of clients/customers; Less investment by Government; Etc. 5 @ 1 mark or development	5

Cambridge IGCSE – Mark Schennerw.dynamicpæppers/hoovermber PUBLISHED 2021

Question	Answer	Marks
1(c)	Levels marking <u>Level 1(</u> 1–3 marks)	7
	Statements including limited detail which describe the difficulties faced by migrants when moving to and/or settling in a new country.	
	<u>Level 2</u> (4–6 marks) Uses named example.	
	More developed statements which describe the difficulties faced by migrants when moving to and/or settling in a new country.	
	(Note: Max 5 if no named or inappropriate example)	
	<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate statements describe the difficulties faced by	
	migrants when moving to and settling in a new country, including some place specific reference.	
	<u>Content Guide:</u> Answers are likely to refer to: Moving to:	
	 Cost of transport Distance/difficulty/danger of journey Difficulty of obtaining work VISA/Green card etc. 	
	Settling in: – Difficulty in obtaining job – Language problems	
	 Unable to afford housing Discrimination etc. 	
	<u>Place specific reference is likely to consist of:</u> Named parts of the chosen country, Population data etc.	
	Note: Credit any scale of international migration.	

Question	Answer	Marks
2(a)(i)	WaterlandAlkmaarNoordkop	1
	Correct order needed	
	1 mark	
2(a)(ii)	Closer to Amsterdam = more commuters/further away = less commuters (1 mark); e.g. there are more commuters from Utrecht than Noordkop <u>and</u> Utrecht is closer to Amsterdam (1 mark); However there are exceptions;	2
	2 @ 1 mark	

Cambridge IGCSE – Mark Schewwerw.dynamicpæppers//toovermber PUBLISHED 2021

Question	Answer	Marks
2(a)(iii)	Ideas such as: Many travel by car; Most commuters are travelling at the same time/workplaces start and finish at same time; Many workplaces are concentrated in certain areas of city/e.g. CBD/industrial areas; Many use the main roads leading to urban areas/many use the same roads; Road network is not designed to cope with volume of traffic; People are reluctant to use/don't use public transport; Many areas are poorly served by public transport etc. 3 @ 1 mark	3
2(a)(iv)	Ideas such as traffic congestion: Delays/cause people to be late for work/school/to destination/time wasted; Results in loss of revenue for businesses/goods delivery delayed; Cause road rage/frustration/stress; Uses more fuel; Increased accidents; Delays emergency services; Result in atmospheric pollution/asthma/lung disease; Increase noise levels; Result in loss of time/revenue for businesses/goods delivery delayed; Note: Can be phrased either way e.g. traffic congestion leads to more accidents or reduction leads to reduced accidents. 4 @ 1 mark	4

Cambridge IGCSE – Mark Schewwew.dynamicpæppers/hoovermber PUBLISHED 2021

Question	Answer	Marks
2(b)(i)	<i>Build Park and Ride facilities:</i> Build car parks on the edge of a city and provided public transport/bus/train into the centre	3
	Reduce cost of public transport: Lower amount which needs to be paid to use buses/trains/trams. Introduce congestion charges at peak times: Raise costs to motorists which have to be paid when they enter a specific area (or example) at a busy time/rush hour	
	<i>Build a metro:</i> Construct an under/overground <u>rail</u> system/monorail	
	<i>Car license plate restrictions</i> : Cars with specific registrations can only enter certain area/use specific roads on certain days.	
	<i>Pedestrianization:</i> Prevent traffic using specific roads/allow only people on foot into certain areas	
	<i>Create cycle lanes:</i> Allow only people riding bicycles to use parts of the road	
	3 @ 1 mark	
2(b)(ii)	Answer will depend on strategy selected (no mark for selection).	5
	Credit advantages of the strategy	
	E.g. Build Park and Ride facilities: Traffic is reduced on main roads within the urban area; Journey time is quicker; There is no need to park in the congested central region;	
	Costs are reduced for commuters; Access central area; Air pollution reduced; Noise pollution reduced;	
	Less accidents; Can pedestrianize central areas	
	5 @ 1 mark or development	

Cambridge IGCSE – Mark Schewww.dynamicpæppers/Movrember PUBLISHED 2021

Question	Answer	Marks
2(c)	Levels marking	7
	Level 1(1–3 marks) Statements including limited detail which describe the problems caused by urban sprawl.	
	<u>Level 2</u> (4–6 marks) Uses named example.	
	More developed statements which describe the problems caused by urban sprawl.	
	(Note: Max 5 if no named or inappropriate example)	
	<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate with some place specific reference.	
	<u>Content Guide:</u> Loss of rural amenity value Traffic congestion around edge of urban area Atmospheric pollution around edge of urban area Noise Loss of farmland/reduced food production	
	Loss of habitat Threat to species etc.	

Question	Answer	Marks
3(a)(i)	D	1
	1 mark	
3(a)(ii)	sun rises in a clear sky cumulus clouds are formed sky becomes covered by clouds heavy rain falls by sunset the sky is clear Correct order = 2 marks 3 or 4 correctly placed = 1 mark 2 marks	2
3(a)(iii)	Ideas such as: They are close to the Equator/low latitudes; Sun is (almost) overhead/high angle (90 degrees); Concentrated rays/direct sunlight/rays concentrated in small area; High/maximum insolation; There are no changes during the year in wind direction/angle of sun 3 @ 1 mark	3

Cambridge IGCSE – Mark Schewwerw.dynamicpæppers//toovermber PUBLISHED 2021

Question	Answer	Marks
3(a)(iv)	Processes such as: Heating Evaporation; Transpiration; Air/water vapour rises; Cooling <u>of</u> air/water vapour (at high levels); Condensation; Saturation etc. Note: Accept names of processes or description. 4 @ 1 mark	4
3(b)(i)	Links such as: Wildlife <u>eats</u> plants or e.g. (caterpillar eats booyong leaves); Birds/snakes <u>eat</u> small creatures or e.g. (forest owl eats possum); Nutrients from (dead) animals <u>returned</u> to soil/creatures faeces fertilize the soil; Soil enables plants to <u>grow</u> /vegetation <u>uses</u> nutrients; Population of species kept in check/in balance Etc.	3
	3 @ 1 mark	
3(b)(ii)	Ideas such as: Dense vegetation/closely packed layers; emergents; canopy; Tall/long/straight trees/trunks; Drip tip/waxy leaves; Lianas/creepers; Undergrowth/shrub layer; Buttress roots; Shallow roots; Evergreen/flower all year; Lots of/brightly coloured/flowers/berries/fruits; E @ 1 mork or dovelopment	5
	5 @ 1 mark or development	

Cambridge IGCSE – Mark Schewww.dynamicpæppers/hoovermber PUBLISHED 2021

Question	Answer	Marks
3(c)	Levels marking	7
	<u>Level 1(1–3 marks)</u> Statements including limited detail which explain why deforestation of tropical rainforests is taking place.	
	<u>Level 2</u> (4–6 marks) Uses named example	
	Developed statements which explain why deforestation of tropical rainforests is taking place.	
	(Note: Max 5 if no named or inappropriate example.)	
	<u>Level 3</u> (7 marks) Comprehensive and accurate statements including some place detail.	
	<u>Content Guide:</u> Answers are likely to include the following ideas: Logging/timber;	
	E.g. such as hardwood/firewood/paper making/furniture/for export/building materials Mining	
	E.g. for oil/iron ore 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 egs; Dams/reservoirs;	
	For generation of HEP Agriculture	
	For Subsistence/commercial reasons Little regulation/enforcement of regulations; Profit is being put before the environment	
	<u>Place reference is likely to consist of:</u> Names of places within the rainforest	
	Specific developments etc.	

Question	Answer	Marks
4(a)(i)	Large sections/part of the earth`s crust/large slab of solid rock floating on the mantle 1 mark	1
4(a)(ii)	A = Eurasian (Plate) B = Pacific (Plate) 2 @ 1 mark	2
4(a)(iii)	Ideas such as: Uneven/clustered; Linear/in lines; Along plate margins/edges/between two plates or example; Around the Pacific Ocean/Ring of Fire; South East/Eastern Asia <u>and</u> Western North/South/Central America OR In the West <u>and</u> East (of the world); On/near coastlines; Down the centre of the Atlantic Ocean etc.	3
	3 @ 1 mark	
4(a)(iv)	Ideas such as: South American and Nazca/plates move towards each other/converge; Subduction or description; Destruction of crust/melting of rocks/creation of magma; Build up of magma/pressure; Magma escapes/rises (through cracks) Etc.	4
	4 @ 1 mark	
4(b)(i)	Problems such as: Falling homes; Cars/examples of possessions damaged; Workplaces destroyed; Hospitals/schools/shops destroyed; Roads/bridge/motorway damaged; Port destroyed/closed; Dam may be destroyed/flooding (from reservoir); People/farm animals/livestock killed/injured; Electricity/water/gas supplies/sewage system damaged; Fires	3
	3 @ 1 mark	

Cambridge IGCSE – Mark Schennerwerw.dynamicpæpperss/hoovermber PUBLISHED 2021

Question	Answer	Marks
4(b)(ii)	Ideas such as: Pressure on living space; Cannot afford to move; Friends/family live there; They have lived there all their lives/sentimental attraction; Work is there; Education is there; Confidence in precautions; E.g. construction of earthquake proof buildings/evacuation plans/drills/emergency service prepared; Prepared to take risk/don't happen often etc. 5 @ 1 mark or development	5

Cambridge IGCSE – Mark Schewww.dynamicpæppers/hoovermber PUBLISHED 2021

Question	Answer	Marks
4(c)	Levels marking	7
	Level 1(1–3 marks) Statements including limited detail which describe the positive and/or negative impacts of volcanic activity.	
	<u>Level 2</u> (4–6 marks) Uses named example	
	Developed statements which describe the positive and/or negative impacts of volcanic activity.	
	(Note: Max 5 if no named or inappropriate example.)	
	<u>Level 3</u> (7 marks) Comprehensive and accurate statements which describe the positive <u>and</u> negative impacts of volcanic activity including some place specific reference.	
	Content Guide: Answers are likely to include the following ideas: Death/injury Loss of/damage to property/possessions Damage to workplaces Destruction of crops/livestock Damage to roads Tourists are attracted Geothermal power Soil fertility will be increased in the long term etc.	
	Developed statements can describe how for example lava impacts people or can describe in detail the impact. <u>Place specific reference is likely to consist of:</u> Locational details Specific details of eruption/date/time Details of damage caused/loss of life Names of plates Statistical information	
	Note: Case study must be a named volcano or small place e.g. Montserrat or La Palma	

Question	Answer	Marks
5(a)(i)	Nomadic herding	1
	1 mark	
5(a)(ii)	Olives; Fruit; Sugar beet; Cereals. 2 @ 1 mark	2
5(a)(iii)	Ideas such as near Latakia; High(er) rainfall; Fertile soil near Latakia Irrigation is possible; Produce can be (more) easily exported/traded; There is a big(ger) local market; Great(er) range of crops can be grown; Nomadic herding is for subsistence/arable is <u>commercial/for profit;</u> Etc. Accept references to either Latakia or Tadmur but no double credit. 3 @ 1 mark	3
5(a)(iv)	Ideas such as: Farmers have to fight in army/reduced labour force/farmers killed/evacuated; Crops/supplies destroyed/animals killed/farmland damaged; Unsafe to farm due to bombing/mines/farmers too scared to work in fields; Government investment in farming reduced due to war effort/spend all the money on the army/divert food for the army; Unable to transport food/unable to import food; Country split so one part may not have agricultural land; Etc. 4 @ 1 mark	4
5(b)(i)	Ideas such as: Fig. 5.2 is arable/crops <u>but</u> Fig. 5.3 is pastoral/animals; Fig. 5.2 is producing rice <u>but</u> Fig. 5.3 is producing lamb/wool; Fig. 5.2 is subsistence/feed themselves <u>but</u> 5.3 is commercial/make a profit; Fig. 5.2 is flooded/irrigated <u>but</u> 5.3 is not; Fig. 5.2 is intensive <u>but</u> Fig. 5.3 is extensive; Fig. 5.2 has small <u>er</u> fields; Fig. 5.2 has flatt <u>er</u> land; Fig. 5.2 is using <u>more</u> labour/does more jobs by hand; Fig. 5.3 has mud bunds around field but Fig. 5.3 has trees/fences; Etc. 3 @ 1 mark	3

Cambridge IGCSE – Mark Schewww.dynamicpæppers//dovermber PUBLISHED 2021

Question	Answer	Marks
5(b)(ii)	Ideas such as: High land may be extremely cold; Preventing the growth of some crops; High land has more rainfall; Flat land/gently sloping land is needed for cultivation/cattle; Flat land can easily be mechanized; Flat land can easily be mechanized; Flat land has more fertile soils; Slopes may be well drained/have more run off; Slopes susceptible to soil erosion; Steep slopes can be used for grazing animals/sheep/goats; As they can cope on sloping land; Flat land is needed for rice cultivation; So that the fields can be easily flooded when required; Aspect determines how much sunshine an area has; South facing slopes are better in northern hemisphere for ripening of e.g., vines; Flat land may be easier to irrigate; River in valley allows irrigation/floods; Etc. Credit named crops/animals as dev. 5 @ 1 mark or development	5

Cambridge IGCSE – Mark Schennerw.dynamicpæppers//dovrember PUBLISHED 2021

Question	Answer	Marks
5(c)	Levels marking <u>Level 1</u> (1–3 marks) Statements including limited detail which describe the effects of food shortages.	7
	<u>Level 2(</u> 4–6 marks) More developed statements which describe the effects of food shortages.	
	<u>Level 3</u> (7 marks) Comprehensive and accurate statements which describe the effects of food shortages including some place reference.	
	<u>Content Guide:</u> Answers are likely to refer to: People cannot feed their families Price increase	
	No surplus for sale/export Starvation Malnutrition Overseas food aid	
	Increased death rates/lower life expectancy Children cannot concentrate in school People become unproductive	
	Overgrazing Overcultivation Deforestation Outward migration	
	Cause civil war Etc.	
	Place specific reference is likely to consist of: Names of places and schemes within chosen region/country Specific details/statistics	

Question	Answer	Marks
6(a)(i)	The steps through/things done/procedures in a factory OR where materials/parts/inputs/raw materials are changed together into a final product/output/occur in a factory	1
	1 mark	
6(a)(ii)	Ideas such as: Highly mechanised/automated/uses machines/advanced technology/computers; Capital intensive; Few employees; Each employee is doing a different job; Modern/up to date Etc.	2
	2 @ 1 mark	
6(a)(iii)	Ideas such as: Fuels are not burnt/required/fuels only used to power the machines; Water not needed; There would be few/no waste products; Atmosphere will not be polluted/less emissions/no smoke/no greenhouse gases created; Rivers/oceans/water will not be polluted/no liquid waste to dispose of etc	3
	3 @ 1 mark	
6(b)(i)	Ideas such as: Fig. 6.2 is old <u>er;</u> Fig. 6.2 is larg <u>er;</u> Fig. 6.2 has <u>more</u> storeys; Fig. 6.2 is brick built but Fig. 6.3 is built with prefabricated sheets; Fig. 6.2 has <u>more</u> windows. 3 @ 1 marks	3
6(b)(ii)	Ideas such as: If manufacturing industries are located close to raw materials/market transport costs will be reduced; If raw materials are bulky industries need to be close to them/near the port; If raw materials are perishable the industry needs to be close to them; If finished products are bulky industries need to be close to the market/cities; If finished products are perishable the industry needs to be close to the market/cities; If finished products are perishable the industry needs to be close to the market/cities;	4

Cambridge IGCSE – Mark Schewwew.dynamicpæppers/hoovermber PUBLISHED 2021

Question	Answer	Marks
6(b)(iii)	Reasons could include reference to: Move to a more modern building; More environmentally friendly/more efficient in terms of layout (dev)	5
	Canal/water transport no longer; Goods now moved by road/too slow to transport by water (dev)	
	Lack of space/need to expand; Too many other industries taking up the nearby space (dev)	
	The areas roads may be congested/narrow; 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:. 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 	

0460/11

Cambridge IGCSE – Mark Schennerw.dynamicpæppers/hovrember PUBLISHED 2021

Question	Answer	Marks
6(b)(c)	Levels marking	7
	Level 1(1–3 marks) Statements including limited detail which explain how the environmental risks are being managed.	
	Level 2(4–6 marks) Uses named example. More developed statements which explain how the environmental risks are being managed.	
	(Note: Max 5 if no named or inappropriate example)	
	<u>Level 3</u> (7 marks) Uses named example. Comprehensive and accurate statements including some place specific reference.	
	<u>Content Guide:</u> Answers can refer to any economic activity at any scale: E.g. logging Agriculture Manufacturing Mining/quarrying Tourism etc.	
	Management will depend on economic activity chosen. E.g. tourism Restrict numbers of tourists Ecotourism Creation of National Parks Banning of vehicles close to attractions Use of guides Education about impacts of tourism on environment Litter bins Restrict access to sensitive areas etc. Culture conflict etc.	
	<u>Place specific reference is likely to consist of:</u> Locational details; Names of places within chosen area Specific details/statistics	
	Note: Named location must be smaller than a country <u>and</u> a named activity	