

## Cambridge IGCSE™

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 May/June 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

# Cambridge IGCSE – Mark Scheme PUBLISHED

### **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 19

# Cambridge IGCSE – Mark Scheme PUBLISHED

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

The marking scheme attempts to give guidance about the requirements of each answer and lists a number of responses, which will earn marks along with the general principles to be applied when marking each question.

It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

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

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

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

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

#### Marking Mechanics.

**Point marking** is used for sections (a) and (b) of each question, although marks are available in specified questions for development of appropriate points. Ticks should be used to clearly indicate where a mark has been allowed. Where a development point has been allowed the symbol "DEV" should be placed adjacent to the tick. The number of ticks should always be equal to the total number of marks awarded. Only one development mark for each mark scheme point please.

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

Crosses are acceptable to signify wrong answers and the letters `I/R` should be used to indicate those which are irrelevant.

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

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

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

© UCLES 2021 Page 3 of 19

#### 0460/11

Where statements are assigned levels by the examiner this should be indicated by the use of L1 and L2 next to the statements. Ticks should not be used on answers that are marked using levels of response marking. L1 annotation should be removed once a L2 is awarded for an answer. L3 annotation is not used. There is no need for a summary level at the end of a response.

#### **Summary:**

Level 1 (1 to 3 marks):

1 simple statement (1 mark)

2 simple statements (2 marks)

3 simple statements (3 marks)

Level 2 (4 to 6 marks):

1 developed statement (4 marks)

2 developed statements (5 marks)

3 or more developed statements with e.g. (6 marks)

Level 3 (7 marks)

3 or more developed statements + named example with at least one piece of place specific detail.

© UCLES 2021 Page 4 of 19

Question	Answer	Marks
1(a)(i)	Australia	1
	1 mark	
1(a)(ii)	15 (per square km) (1 mark)	2
	32 939 213 divided by 2 149 690 (1 mark)	
	2 @ 1 mark	
1(a)(iii)	Ideas such as; Rainfall is low/aridity/area or land dry; Lack of/expense of obtaining (drinking) water/water supplies/die of thirst; Agriculture is not productive/easy to establish/no fertile land/can't grow food; Need for irrigation; Lack of natural resources/mines or other e.g.s; Lack of jobs; Difficult to build; Poor transport/communications; Prefer to live in cooler areas so don't need air conditioning.	3
1(a)(iv)	3 @ 1 mark  Ideas such as: (Easy to build on) Flat land; Good road/rail/communications/transport;	4
	Industrial development/business/industry; Fertile soil/favourable for agriculture; Port/trade; Tourist industry; Fishing; Moderating influence of sea	
	4 @ 1 mark	

© UCLES 2021 Page 5 of 19

Question	Answer	Marks
1(b)(i)	Percentage of working women:  If percentage is high population growth rate will be low or lower/decreasing population//if percentage is low population growth rate will be high or higher/increasing population/working women will not have time for large families/working women put their careers before having children/have children later in life and impact on growth rate;	3
	Government policy: Anti-natal policies lead to low population growth or lower/decreasing population/low birth rates/pro-natal policies lead to high population growth or higher/increasing population/preventing immigration reduces population growth;	
	Net migration: If net migration is positive ( <u>more immigration than emigration</u> ) <u>population will grow</u> /If net migration is negative ( <u>more emigration than immigration</u> ) <u>population growth</u> will be reduced etc.  3 @ 1 mark	
1(b)(ii)	Ideas such as: Falling/low death rates/less die; Longer life expectancy/more elderly people; More doctors/more medicines/hospitals/vaccinations; Falling infant mortality/more babies survive/no need to have babies in case some don't survive; Less babies born/have fewer children/birth rate decreases; People can survive diseases/treat diseases.	5
	5 @ 1 mark or development	

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Question	Answer	Marks
1(c)	Levels marking <u>Level 1</u> (1–3 marks)  Statements including limited detail which describe problems caused by a rapid population growth rate.	7
	<u>Level 2</u> (4–6 marks) Uses named example.	
	More developed statements which describe problems caused by a rapid population growth rate.	
	(NB 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: Candidates are likely to refer to problems such as: unemployment lack of housing/squatter settlements pressure on education insufficient health care shortage of water difficulties of providing good sanitation traffic congestion air pollution	
	water pollution deforestation species impact etc.	
	Place specific reference is likely to consist of: Named places within the country Specific details of problems Statistics etc.	

© UCLES 2021 Page 7 of 19

Question	Answer	Marks
2(a)(i)	A way of arranging settlements into <u>order/importance based upon</u> their population/size/services provided etc.	1
	1 mark	
2(a)(ii)	The larger the population size the smaller the number of settlements/the smaller the population size the greater the number of settlements/lots of small settlements and few larger settlements/negative correlation.	2
	The larger the settlement the higher the order of services provided/ the smaller the settlement the lower the order of services provided.	
	2 @ 1 mark	
2(a)(iii)	A small settlement with a primary school which is surrounded by farmland = Village	3
	A large settlement with headquarters of many large businesses and government buildings = Capital city	
	A settlement which has a few houses and no services = Hamlet	
	3 @ 1 mark	
2(a)(iv)	Ideas such as high order services are likely to: Have a larger sphere of influence; Have a larger threshold population; Be used less frequently/be used monthly rather than daily; Have a larger range/be used by people living further away	4
	NB Or vice versa for low order. Must be comparative	
	4 @ 1 mark	
2(b)(i)	Ideas such as: Fig. 2.3 = port Fig. 2.4 = retail Fig. 2.5 = tourist resort	3
	3 @ 1 mark	
2(b)(ii)	Ideas such as:	5
	E.g. port: Located alongside an estuary; Flat land for building warehouses/storage; Deep water channel; Sheltered anchorages; Large hinterland producing products for export/agricultural products/manufactured goods; Good rail/road communications etc.  5 @ 1 mark or development	

© UCLES 2021 Page 8 of 19

Question	Answer	Marks
2(c)	Levels marking	7
	<u>Level 1</u> (1–3 marks) Statements including limited detail which describe the causes and/or effects of a problem faced by people living there.	
	Level 2 (4–6 marks) Uses named example.	
	More developed statements which describe the causes and/or effects of a problem faced by people living there (NB Max 5 if no named or inappropriate example)	
	Level 3 (7 marks) Uses named example. Comprehensive and accurate statements which describe the causes and the effects of a problem faced by people living there, including some place specific reference.	
	Content Guide: Candidates are likely to refer to problems such as: Traffic congestion Unemployment Lack of housing/squatter settlements High crime rates Air pollution etc.	
	Place specific reference is likely to consist of: Named parts of the chosen settlement/ detail of problems/statistics Etc. Examples can be MEDC/LEDC city/town in any country.	

© UCLES 2021 Page 9 of 19

Question	Answer	Marks
3(a)(i)	7 (oktas)	1
	One mark	
3(a)(ii)	most rainfall = 11th (Oct) smallest range of temperature = 4th (Oct )	2
	2 @ 1 mark	
3(a)(iii)	Ideas such as on the 19th Oct there was: More cloud cover; More rainfall; Higher minimum temperature; Lower maximum temperature; Smaller temperature range.  NB Accept reverse answers but no double credit.	3
	3 @ 1 mark	
3(a)(iv)	2 marks for weather characteristics and 2 for correctly linked instruments such as: Humidity Wet and dry (bulb) thermometer/hygrometer; (Campbell Stokes) sunshine recorder hours of sunshine/sunlight; Wind direction Wind vane; Wind speed Anemometer; Air/atmospheric pressure Barometer Etc.	4
	NB Credit instrument first 4 @ 1 mark	
3(b)(i)	Ideas such as: Locate above level of buildings/locate on a roof/high up Do not locate under trees/plants/vegetation; Do not locate between buildings/in shelter of buildings; Put them in the open/not sheltered/not in shade (allowed as alternative to line two or three, if no other credit for those two lines); Etc.  3 @ 1 mark	3

© UCLES 2021 Page 10 of 19

Question	Answer	Marks
3(b)(ii)	Ideas such as: Greater accuracy; Human errors are eliminated; More precise readings/exact readings/readings to several decimal points; No need to read the instruments/automatic recording/saves time/faster/easier to read; Data obtained is continuous/no dates are omitted; Data can instantly be processed/stored/logged on computer; Instant analysis/graphing by computer; Instruments are always in position/no need to handle instrument/less likely to break instruments.  5 @ 1 mark or development	5
3(c)	Levels marking	7
	Level 1 (1–3 marks) Statements including limited detail which explain the causes of a flood.  Level 2 (4–6 marks) Uses named example  Developed statements which explain the causes of a flood.  (NB Max 5 if no named or inappropriate example. Credit country names to max.5)  Level 3 (7 marks) Comprehensive and accurate statements including some place specific reference.	
	Content Guide: Answers are likely to include the following ideas: Large amount of rainfall Intense rainfall/over short period of time Snow melt Saturation of soil/permeability Deforestation Urbanization Waste in river Dam collapse Lack of/failure of river management etc.  Place specific reference is likely to consist of: Locational details/named areas around the river, Specific details of flood/date/time/depth	

© UCLES 2021 Page 11 of 19

Question	Answer	Marks
4(a)(i)	X marked on Fig. 4.1	1
	One mark	
4(a)(ii)	Ideas such as: Low latitudes/close to Equator/between tropics/tropical areas; Sun is overhead/direct/concentrated sunlight/high angle of sun; High insolation etc.  2 @ 1 mark	2
4(a)(iii)	Ideas such as: Long way from source of moisture/from sea/no water to be evaporated/no water source; Prevailing winds blow over large areas of land; Winds are dry when they reach the desert/rain falls before the winds reach the desert; They may be in areas of rain shadow etc.  3 @ 1 mark	3
4(a)(iv)	Processes such as: Heating/heats up; Evaporation of water; Transpiration; (Evapotranspiration as alternative to evaporation and transpiration); Rising air/convection; Cooling; Condensation; Saturation etc. Clouds form^ Hot^  NB Max 2 if wrong context e.g. relief rainfall  4 @ 1 mark	4
4(b)(i)	Ideas such as: Sparse vegetation/no trees; Large amounts of bare soil/rocky/sand; Plants with thin leaves; Shrubs/grasses/ <u>low</u> level plants; No surface water/water sources Etc.  3 @ 1 mark	3

© UCLES 2021 Page 12 of 19

## May/June 2021

Question	Answer	Marks
4(b)(ii)	Ideas such as: Can survive for a long time without water/food/can store water; They eat succulent plants/get water from plant or e.g.; Large feet to stop sinking into sand; Large ears with many blood vessels to give off excess heat, They stay in burrows/bury themselves in the sand during the hot days; They are nocturnal; Their kidneys concentrate urine so that they excrete less water; Some (or e.g.) have a thick outer covering which reduces moisture loss; Some excrete urine on their legs which cools them by evaporation; Circulate the cooled blood back through the body; etc	5
	NB Do not credit description of features as development.	
	5 @ 1 mark or development	
4(c)	Levels marking  Level 1 (1–3 marks)	7
	Statements including limited detail which describe the impacts of deforestation on the <u>local natural</u> environment.	
	Level 2 (4–6 marks) Uses named example.	
	More developed statements which describe the impacts of deforestation on the local natural environment.	
	(NB Max 5 if no named or inappropriate example)	
	Level 3 (7 marks) Comprehensive and accurate statements including some place specific reference.	
	Content Guide: Answers are likely to refer to: Loss of biodiversity Loss of habitat Extinction of species	
	Impacts on food chain/ecosystems Soil erosion Leaching	
	Increased overland flow Flooding etc.	
	Place specific reference is likely to consist of: Locational details, Named places Specific details of loss of species	
	Statistics etc. Logging or trees chopped down = 0	

© UCLES 2021 Page 13 of 19

Question	Answer	Marks
5(a)(i)	Best fit line	1
	One mark	
5(a)(ii)	E.g. Kenya/Malaysia has high IMR and low GDP but USA/Kuwait/Italy/Japan/USA has low IMR but high GDP/or use higher and lower to show comparison (1 mark)	2
	Accurate statistics for <u>both</u> countries to illustrate the above. (1 mark)	
	2 @ 1 mark	
5(a)(iii)	Ideas such as in countries with high GDP IMR is low because: There is good health care/clinics/hospitals/medical equipment; Many doctors/nurses; Vaccinations available; Medicines are available; Children/babies are well fed/food available; There are clean water supplies; Mothers are educated about care of their infants etc.	3
	NB Or vice versa for countries with low GDP	
	3 @ 1 mark	
5(a)(iv)	HDI is a composite indicator of development HDI scores for every country are between 0 and 1 Many people who live in a country with a low HDI will not have completed secondary education The lower the HDI the shorter the life expectancy is likely to be.	4
	4 @ 1 mark	
5(b)(i)	Ideas such as: Higher energy use in northern hemisphere/lower in southern hemisphere; Higher in temperate areas/lower in tropical areas/high in equatorial and low in polar; Higher in MEDCs/low in LEDCs High in North America/northern Asia/Australasia but low in Africa/southern Asia; Etc.	3
	NB Must be comparative	
	3 @ 1 mark	

© UCLES 2021 Page 14 of 19

Question	Answer	Marks
5(b)(ii)	Ideas such as: Some countries have more/a large amount of (energy) resources; E.g. oil, coal etc.; Some countries/people can afford energy/can afford to develop energy supplies; Access to technology/skills; Energy/electricity supply/grid is available throughout the country; Using more electronic devices/home appliances or e.g.; Some countries are industrialized/have more factories; E.g. manufacturing industry is likely to use large amounts of energy; Some countries use a lot of transport/have more cars; E.g. car ownership is high in MEDCs/delivery by HGVs; Some countries travel by plane/for leisure travel; Specified reference to impact of climate e.g. impact of air conditioning/central heating etc.;	5

© UCLES 2021 Page 15 of 19

Question	Answer	Marks
5(c)	Levels marking	7
	<u>Level 1</u> (1–3 marks) Statements including limited detail which describe advantages and/or disadvantages of TNC for local people.	
	Level 2 (4–6 marks) Uses named example of TNC.	
	More developed statements which describe advantages and/or disadvantages of TNC for local people.	
	(NB Max 5 if no named or inappropriate example)	
	<u>Level 3</u> (7 marks) Comprehensive and accurate statements including some place specific reference.	
	Content Guide: Answers are likely to refer to: Employment Improvements in infrastructure Wealth creation Development of health care Multiplier effect Skills development/education Exploitation	
	Low pay Few safe working regulations Little profit stays in country Impact of air/water pollution etc.	
	Place specific reference is likely to consist of: Specific details about TNC Named areas where TNC operates Statistical detail	

© UCLES 2021 Page 16 of 19

Question	Answer	Marks
6(a)(i)	Washing machine factory	1
	One mark	
6(a)(ii)	The bakery is: Closer to the CBD; Closer to the railway line/bakery close to road/bakery is close to railway and road whilst cement factory is close to a road; Closer to the Motorway; Bakery in built up area but cement factory is outside the built up area/in rural area etc.  NB Must be comparative 2 @ 1 mark	2
6(a)(iii)	Ideas such as: Bread is bulky; Reduces transport costs; Bread is perishable/can be sold whilst still fresh; More profitable/more business; Etc.  3 @ 1 mark	3
6(a)(iv)	Advantages such as:	4
	Land is plentiful on edge of city (1) so plenty of room for assembly lines/expansion (1); Land is cheaper on edge of city (1) so costs are reduced (1); Close to motorway/main road (1) so components can be delivered/products/goods can be transported to market/CBD (1) Large amounts of labour is available (1) for manual assembly jobs/packing/working in offices (1) etc.; On (ring) road (1) so that delivery vehicles do not have to drive through city centre/inner city; Easy to get to port/capital (1) for export/sales; Away from city (1) so no complaints about noise/avoid congestion (1);	
	4 @ 1 marks	
6(b)(i)	Ideas such as: Industry is more important in the north/less important in the south; There are more different industries/more variety in the north; Engineering/furniture industry is in the north but not the south; There are food industries/textiles in both the north and south; Engineering in north but food in south or other correct comparison; etc.	3
	NB Must be comparative. Allow contrast between Sicily and the north.	
	3 @ 1 mark	

© UCLES 2021 Page 17 of 19

Question	Answer	Marks
6(b)(ii)	Ideas such as: Use of electricity; Which is generated using coal/oil/gas; Direct use of fossil fuels/coal/oil/gas; Release of carbon dioxide/increases in atmosphere; Which is a greenhouse gas or example; Creates a blanket/layer in the atmosphere; Sun's rays can pass through it; But cannot escape/are trapped; Deforestation/loss of trees; Less plants to use carbon dioxide;  5 @ 1 mark or development	5

© UCLES 2021 Page 18 of 19

Question	Answer	Marks
6(c)	Levels marking	7
	Level 1 (1–3 marks) Statements including limited detail which explain how economic activity is managed to reduce risks to natural environment.	
	Level 2 (4–6 marks) Uses named example. More developed statements which explain how economic activity is managed to reduce risks to natural environment.  (NB 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: Logging Tourism e.g. National Parks Manufacturing industry Quarrying Agriculture Energy usage etc.	
	NB Any examples of economic activity can be used at any scale.  Management strategies are likely to include: Planning restrictions Legislation Protection of ecosystems National Parks Control of numbers Technological improvements Use of renewable energy etc.	
	Place specific reference is likely to consist of: Locational details; Names of places within chosen area Specific details/statistics	

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