### Cambridge IGCSE™

GEOGRAPHY
Paper 4 Alternative to Coursework
MARK SCHEME
Maximum Mark: 60

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.

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## Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(a)	Headland and	1
1(b)	Movement of material up and down the beach is repeated with each wave.  Prevailing wind influences the direction of longshore drift movement.  Waves approach the coastline at an angle.  3 @ 1	3
1(c)	<ul> <li>Would be able to communicate/call/use it if they got into difficulty/got separated/in an emergency/if needed help</li> <li>To take appropriate clothing or example/take sunblock</li> </ul>	3
	To see if it is safe to work/not go/work if storm is forecast	
	3 Cannot work at high tide/not get cut off by the tide/less dangerous to go at low tide/dangerous at high tide 3 @ 1	
1(d)	(Create a transect)	3
	Create transect line up beach/use a rope/tape measure to make a line	
	Pick up a piece of shingle at regular distance/every 10th piece of shingle /pick up piece of shingle every metre	
	Select beach material touching tape	
	OR	
	(Use quadrat) Put quadrat on beach/throw onto ground	
	Sample shingle within each quadrat	
	Use random numbers to identify a square in quadrat/pick shingle from different squares	
	Repeat at regular/equal intervals up beach	
	OR	
	Pick up 10 pieces of shingle at random	
1(e)(i)	Put piece of shingle into 'teeth'/prongs/gap (of callipers/micrometer)/adjust callipers to hold piece of shingle	2
	Measure length on the scale/read or look at the number on scale/measure gap between 'teeth'/measure length with ruler	
1(e)(ii)	Plot 6.4 cm at 600 m	1

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## Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(e)(iii)	Best-fit line on Fig. 1.4	1
	At least 6 plots on one side of the line (can include one plot on the line)	
1(e)(iv)	Hypothesis is true/correct – 1 mark reserve	3
	Measurements/length of shingle decrease (along beach/from south west to north east)/negative correlation	
	1 mark for paired data to show decrease e.g. site 1/0 m = 8.4 cm and site 15/1680 m = 5.1 cm OR decrease by 3.3 cm between site 1 and site 15	
	Credit any two sites which show a decrease	
	No credit for anomalies	
	No credit for Hypothesis is incorrect/partially correct. If no hypothesis conclusion credit evidence	
1(f)(i)	Index score 3 4 12 0 5 0 Total index score = 24	2
	1 mark for correct index scores, 1 mark for correct total	
1(f)(ii)	Index scores are subjective/compared with diagram/measured by eye /estimated	2
	Long axis results are <b>measured</b> /use callipers/uses equipment	
1(f)(iii)	Plot site 15 = 41 on graph	1
1(f)(iv)	No/hypothesis is incorrect/not supported – 1 mark reserve	3
	There is no clear pattern/degree of roundness varies/fluctuates along beach /no correlation/no relationship/increases and decreases/no clear trend	
	Credit 1 mark for evidence which disproves hypothesis e.g. Site 4/360 m = 58 and site 12/1320 m = 31 Site 7/720 m = 31 and site 12/1320 m = 31	
	No credit for Yes/hypothesis is correct/partially correct.	
	If no hypothesis conclusion credit evidence	

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Question	Answer	Marks
1(g)	Traps pebbles or beach material or sand/prevents movement of material along beach/encourages deposition	2
	To make the beach wider	
	To slow down/reduce longshore drift/stop/prevent longshore drift	
	Protect the beach	
1(h)	Count number of waves breaking/going up beach/hitting object or person /coming into beach/coming into shore/float rises and falls	3
	Clicker/tally chart to count waves	
	Count for specified time period/certain time/1–10 minutes	
	Use a stopwatch to measure time	
	Repeat and work out average	

Question	Answer	Marks
2(a)	Rural-urban fringe	1
2(b)(i)	Linear/long and thin	2
	Nucleated	
	Y-shaped/P-shaped (or appropriate shape)	
2(b)(ii)	To the west south west/south of the main road	2
	To the south/south east/south west/north west (of the original village)	
	To the north/east of woodland	
	Away from the roads/further out from road/spread out/towards woodland /along the road/on outskirts/around original village	

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Question	Answer	Marks
2(b)(iii)	People moving from the city/urban-rural movement/escape from city	2
	Attraction of more land/houses spread out/space for garden	
	Increase in car ownership	
	Growth of commuting to work	
	Attraction of living in countryside/peaceful/less polluted/better living conditions /attractive scenery	
	People move to live around the city/rural to urban (fringe) migration 2 @ 1	
2(c)(i)	Obtained from another source/from internet/already available	1
	Not collected by students themselves/collected by other people	
	Refined/collated/organised data	
2(c)(ii)	Plot 9400 in 2017 (need line)	1
2(d)(i)	Credit appropriate day and time	1
	Weekend/non-working day Friday/Saturday/Sunday/holiday	
	Any appropriate time between 09.00 and 18.00	
	If a workday is suggested credit if appropriate time e.g. Monday at 17.00/between 12.00 and 13.00/any time after 16.00/before 09.00	
2(d)(ii)	People will not be at work/working age group will not be available on working days/lunch time/people out shopping/more time to answer	1
2(d)(iii)	Things to do: 2, 3, 4	2
	Things not to do: 1, 5, 6	
	Credit 1 mark for each column – Things to do and Things not to do	
2(e)(i)	Ask the people if they lived in the town/which area do you live in	1
2(e0(ii)	Systematic	1
2(f)(i)	Plot 19% 30-39 years and 6 % 40 and over	2
	1 mark for dividing line at 94% and 1 mark for shading	

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Question	Answer	Marks
2(f)(ii)	Hypothesis is false/incorrect – 1 mark reserve	3
	Most people/majority/over 50%/over half have lived in the settlement for 20 years or more/more than 20 years	
	53% have lived there for 20 years or more/more than 20 years or 47% have lived there for less than 20 years	
	No credit for Hypothesis is true/correct.	
	If no hypothesis conclusion then credit evidence	
2(f)(iii)	Plot 27% at 21–30 km (ignore shading)	1
2(f)(iv)	Yes/hypothesis is true/correct – 1 mark reserve	2
	57% travel more than 20 km or 43% travel 20 km or less	
	No credit for No/hypothesis is incorrect/partially correct.	
	If no hypothesis conclusion then credit evidence	
2(g)	Low crime rate	3
	convenient public transport routes	
	nearby countryside is good for relaxation	
	Accept 4,5,2 if candidate numbers them in table	
	Credit 2 max if used correct numbers only (4,5,2) 3 @ 1	

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## Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
2(h)	More customers for local services/shops	4
	More active local community/decrease in community spirit	
	Rise in house prices/rent	
	Increase in traffic/traffic noise/congestion/parked cars	
	Noisy residents/noise from school	
	Farmers sell land/loss of farmland/destruction of fields	
	Better/more public transport	
	More shops open/local school opens	
	More jobs in shops/building houses	
	Litter	
	Specified crime	
	Loss of amenity value if specified (e.g. picnic spots)	
	Impact on scenic beauty/spoils scenery	
	^ = more jobs/economy grows	
	More customers	
	More noise	
	More transport	
	More services/facilities/amenities	
	More demand for water/food/electricity	
	More busy/more crowded	
	More houses built	
	Destruction/loss of vegetation/woods/less green space	
	Loss of habitats/reduction in wildlife/loss of biodiversity	
	Air pollution/traffic fumes	
	Noise scaring animals/disturbs wildlife	
	NOT: more trees planted Higher flood risk due to impermeable concrete/river pollution Deforestation	
	1 mark reserve for people and natural environment	

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