

Candidate Marks Report

Series : 6 2018

This candidate's script has been assessed using On-Screen Marking. The marks are therefore not shown on the script itself, but are summarised in the table below.

Centre No :	Assessment Code :	J384
Candidate No :	Component Code :	01
Candidate Name :		

Total Marks :

In the table below 'Total Mark' records the mark scored by this candidate.
'Max Mark' records the Maximum Mark available for the question.

SECTION A

Answer all the questions.

Global Hazards

- 1 (a) Define the term extreme weather.

Extreme weather is ~~to~~ long term weather
conditions that cause problems. [1]

- (b) Study Fig. 1 in the separate Resource Booklet, maps showing atmospheric and ocean circulation in the Pacific during a normal year and an El Niño year. high temp.

Using Fig. 1, suggest how South America may be affected during an El Niño year.

There is a rise in sea temp and trade winds
weaken. Therefore, the South America becomes
warmer as heat travels above the sea.

[3]



- (c) Study the table below showing the frequency of some hazard events between 1980 and 2015.

Year	Number of events per year		
	Earthquakes	Tropical Storms	Floods
1980	25	41	38
1985	21	55	52
1990	30	70	70
1995	26	69	78
2000	37	72	160
2005	40	130	182
2010	50	81	185
2015	33	90	152

Select the most suitable graphical technique for presenting the number of flood events column.

- A Bar graph
- B Climate graph
- C Line graph
- D Pie chart

Write the correct letter in the box.

A

[1]



(d)* Assess the technological developments used to mitigate the impacts of a tectonic hazard.

To mitigate the impacts of tectonic hazards we have improved buildings infrastructure so they are more able to withstand tectonic hazards. We have drilled poles deep into the earth's crust in order to remain stable. Also, we have evacuation procedures and more technology analysing tectonic movement.

[8]



Changing Climate

2 (a) Choose the correct definition of climate change.

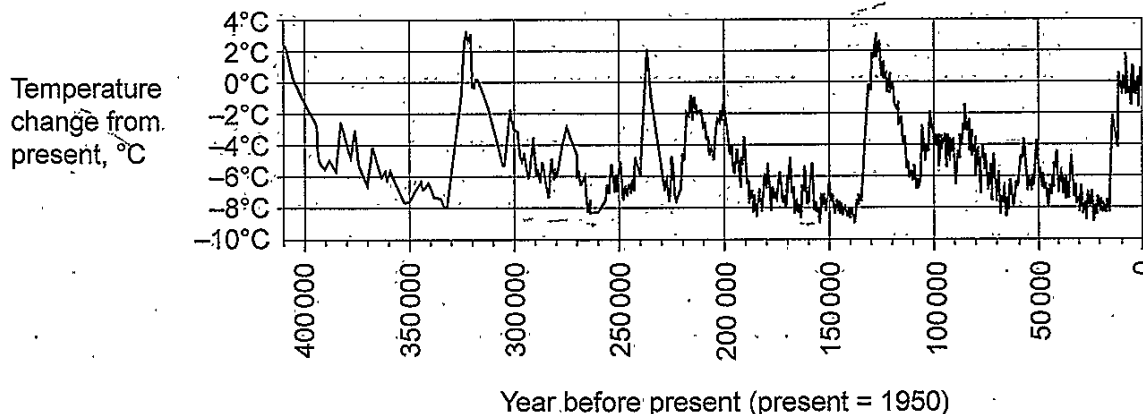
- A Global warming.
- B Large-scale, long-term changes in average temperatures and weather patterns.
- C The difference in temperature and weather during different seasons.
- D The short-term warming of the Earth.

Write the correct letter in the box.

B

[1]

(b) The graph below shows the changes in global temperature over the last 400 000 years.



Using data from the graph, describe the trend shown.

The graph shows that every ~~100~~⁷⁵ 000 years the temperature change from present goes up by at least 2°C. It also shows a fluctuating pattern with the lowest change from present being around approximately -9.8°C and the highest being 3°C. This could be due to the El Niño and El Niña affect.

[4]



(c) Study Fig. 2 in the separate Resource Booklet, a painting from 1677 of the frozen River Thames.

Explain how this painting could be used as evidence for climate change.

It gives a visual representation of the weather and climate. The River Thames used to freeze over, it doesn't now, therefore we can suggest it's warmer. [2]

(d) Suggest why climate change is considered to be a global issue.

Climate change is considered to be a global issue because it happens all across the world. Also everyone needs to help reduce it. It causes long term affects so plans need to be put in place in order to be able to cope with it.

[6]



Distinctive Landscapes

- 3 (a) Study Fig. 3 in the separate Resource Booklet, a relief map of the UK.

What type of map is this?

- A Choropleth
- B Flow line
- C Isoline
- D Thematic

Write the correct letter in the box.

B

[1]

- (b) Using Fig. 3, suggest which type of natural landscape is likely to be found at X.

low / flat land [1]

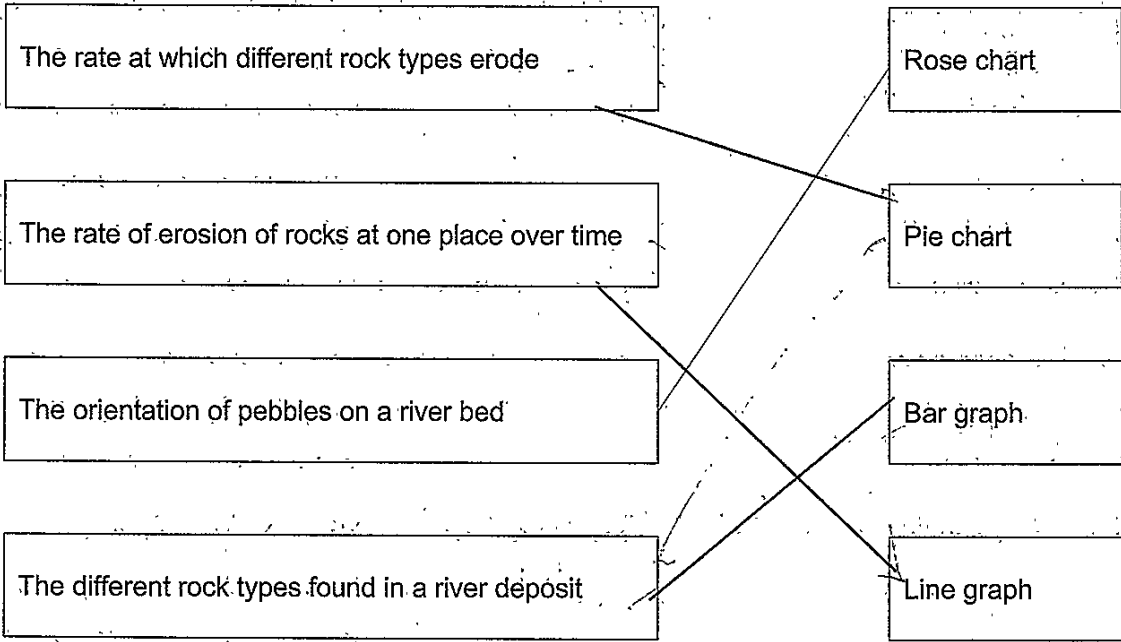
- (c) Using Fig. 3, describe the distribution of upland areas in the UK.

The majority of upland areas tend to be in the centre and to the North in Scotland. There is a long line of upland area from Cambridge to Manchester. There is little upland area in the South of the UK.

[3]



(d) Select which graphical technique best suits the data listed below. One has been done for you.



[2]

(e) Case study – the landscape of a UK river basin.

Discuss the influence of geology in the formation of river landforms within your chosen river basin.

Name of chosen river basin in the UK:

The river basin is much shallower on the outside of a bend a much more deeper on the inside of a bend because on the inside the water has a higher velocity and is more likely to erode the ~~bed~~ river bed.

.....

.....

.....

.....

.....

.....

.....

.....

.....

[6]



Sustaining Ecosystems

4 (a) Select the correct definition of an ecosystem.

- A A type of tourism that protects the environment.
- B The interconnectedness of environments.
- C The interdependence of plants and animals with the environment they live in.
- D The place where animals and plants live.

Write the correct letter in the box.

C

[1]

(b) Name two features of Arctic flora.

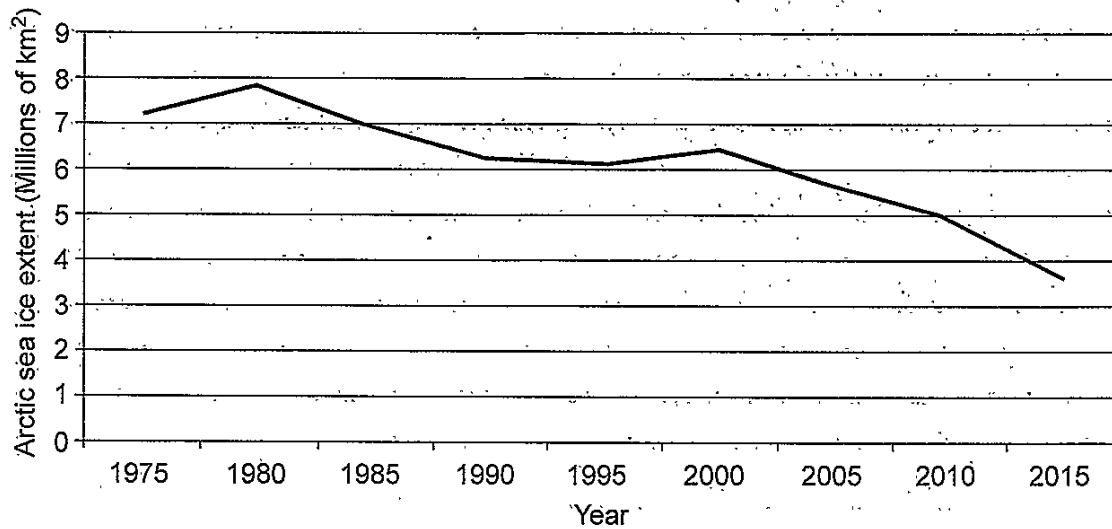
- 1 It includes plants growing in colder areas due to adaptation from climate change.
- 2 It's got animals changing the amount of flowers in the Arctic by eating them.

[2]



- (c) The graph and table below show the average September Arctic sea ice extent between 1975 and 2015.

September Arctic sea ice extent from 1975-2015



Year	1975	1980	1985	1990	1995	2000	2005	2010	2015
Arctic sea ice extent (1000000sqkm)	7.2	7.8	6.9	6.2	6.1	6.4	5.6	4.9	3.6

Which of these statements describing the trend shown on this graph is true?

- A The sea ice extent in 1975 and 1985 was the same.
- B The sea ice has decreased most rapidly between 1985 and 2000.
- C The sea ice has decreased most rapidly between 2000 and 2015.
- D The sea ice has rapidly increased from 2000 to 2015.

Write the correct letter in the box.

C

[1]



(d) Why are tropical rainforest soils considered to be amongst the poorest in the world?

Tropical rainforest soils are considered to be the poorest in the world because rainfall doesn't often reach the soil because of the upper canopy's and all the layers that the rain lands on. Also all the plants take in nutrients from the soil.

[3]

(e) Case study – Sustainable management of an area of tropical rainforest.

Evaluate the effectiveness of **one** way in which an area of tropical rainforest you have studied is being sustainably managed.

Name of tropical rainforest area studied:

There are no build areas where you cannot build or cut down trees you also have certain paths you can walk on but you must stick to them and along the route there are information boards about the importance of keeping the rainforest in good condition. Tour guides can only take a certain amount of people and they must explain rules first.

[6]



SECTION B

Answer all the questions.

Physical Geography Fieldwork

- 5 (a) Study the table below, which shows the results of an investigation into longshore drift.

Groyne Number	Drop North side (cm)	Drop South side (cm)	Difference
1	27	41	14
2	31	51	20
3	28	44	16
4	25	39	14
5	32	54	22

Using data from the table, describe the pattern in the longshore drift data collected.

The data shows that Groyne number 1 and 4 had the same difference and Groyne 5 had the biggest difference. The difference fluctuates up and down showing that long shore drift has occurred because it is moving sediment along the beach shore.

[4]

- (b) Study Fig. 4 in the separate Resource Booklet, students' data presentation from physical geography fieldwork data.

A student has used GIS to present their findings on changes in beach sediment size.

Suggest what Fig. 4 indicates about the pattern of beach sediment size along the shore.

It shows that the further North the smaller the sediment size and the further South the larger the sediment size so sediment has been moved South via long shore drift.

[2]



(c) State **one** way you could adapt Fig. 4 to make it more informative.


You could ~~add the~~ add the distances in between where each mean was found. [1]

(d)* You will have carried out some physical geography fieldwork as part of your GCSE Geography course.

Name the fieldwork To what extent does the River Goyt follow the Bradshaw model?

To what extent was your primary data collection successful?

Our data was successful. It proved that the further down the river, the higher the velocity and lower the pebble size. It showed that pebbles further down stream had an average diameter of 3.5 and were well-rounded. However we can get slightly different results due to peoples perceptions and interpretations. Therefore our results may not be repeatable. Also, timing the velocity meant we had to time how long it took for a float to travel 5m down stream, peoples reaction time may affect this. It is important that we do the fieldwork on the same day at three or more intervals along the river and then repeat on other days. [8]

 Spelling, punctuation and grammar and the use of specialist terminology [3]

END OF QUESTION PAPER



ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

50D in order to compare our results were
5d. subjective.



Area with horizontal dotted lines for writing.

OCR

Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

