Surname

Centre Number Candidate Number

wjec cbac

Other Names

GCE A Level – LEGACY

1215/01

GEOLOGY – GL5 Thematic Unit 1 Quaternary Geology

THURSDAY, 7 JUNE 2018 - MORNING

ONE of TWO units to be completed in 2 hours

	For Examiner's use only		
	Question	Maximum Mark	Mark Awarded
Section A	1.	15	
Section B	2.		
	3.	25	
	4.		
	Total	40	

ADDITIONAL MATERIALS

In addition to this and one other examination paper, you will need a calculator.

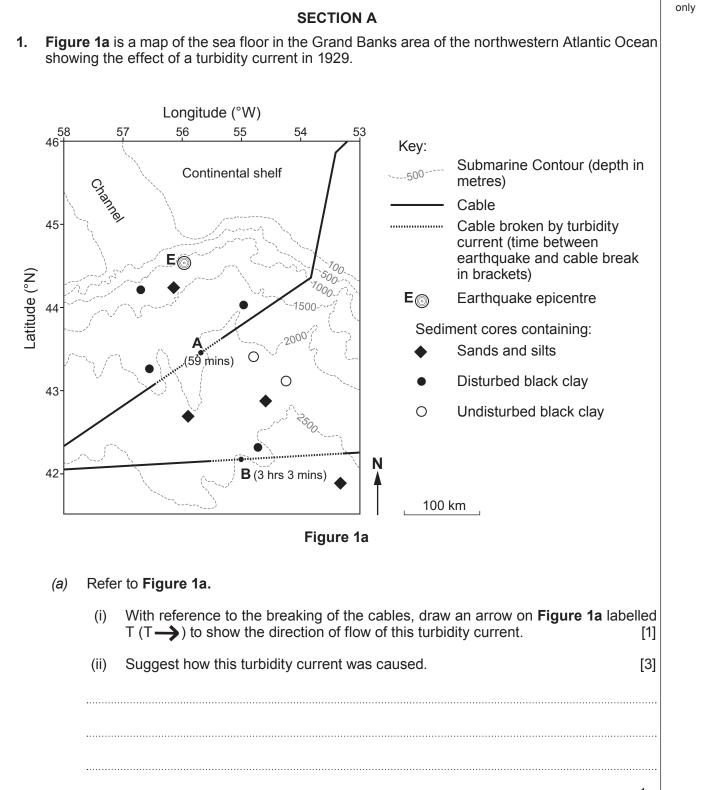
INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page. Answer **question 1** in Section A (15 marks) and **one** question from Section B (25 marks).

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. You are reminded of the necessity for good English and orderly presentation in your answers.

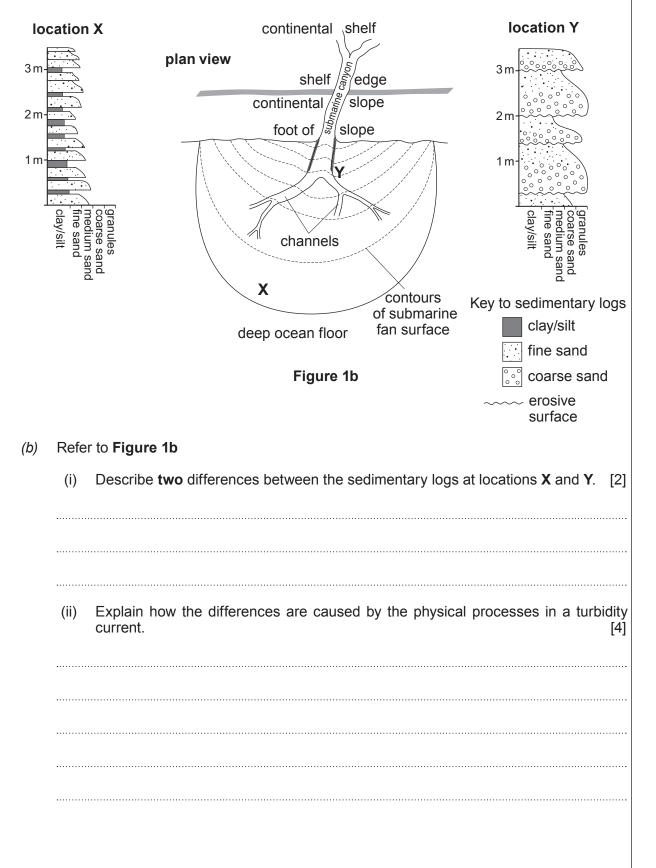


(iii) Calculate the speed of **this** turbidity current between points **A** and **B** in km min⁻¹.
 Show your working. [2]

..... km min⁻¹

Examiner

Figure 1b is a model of part of the deep ocean floor showing sedimentary logs of cores taken in two locations marked **X** and **Y**.



Examiner

(1215-01)

(c) Using your knowledge, describe how the Hjulstrom graph could be used to interpret the processes in a turbidity current that formed the sediments at Location Y on Figure 1b.
[3]

SECTION B

5

Answer one question only.

Write your answer in the remaining pages of this booklet.

2. *"The study of modern carbonate environments enables us to interpret the link between process and product."*

Evaluate this statement with reference to the interpretation of ancient carbonate environments. [25]

- **3.** (a) Describe the evidence from fossils for climatic fluctuations in Britain during the Quaternary period.
 - (b) Evaluate the use of radiocarbon (¹⁴C) dating in establishing a timescale for these climatic fluctuations. [25]
- **4.** Evaluate the significance of:
 - (a) geological structures and bodies
- and (b) glaciation
 - in the formation of a variety of relief forms.

[25]

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