

Surname	Centre Number	Candidate Number
First name(s)		2



GCE AS

B110U10-1



TUESDAY, 6 OCTOBER 2020 – MORNING

GEOGRAPHY – AS component 1
CHANGING LANDSCAPES

2 hours 15 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
Either 1 and 2 or 3 and 4	15	
	20	
5.	40	
6.	35	
7.	10	
Total	120	

ADDITIONAL MATERIALS

- a calculator.

INSTRUCTIONS TO CANDIDATES

In Section **A**, answer **either** questions 1 **and** 2 **or** questions 3 and 4.

Answer **all** questions in Section **B** (Tectonic Hazards) and **all** questions in Section **C** (Challenges in the 21st Century).

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.

Write your answers in the spaces provided in this booklet.

If further space is required you should use the continuation page(s) at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question; you are advised to divide your time accordingly.

This paper requires that you make as full use as possible of appropriate examples and reference to data to support your answer. Sketch maps and diagrams should be included where relevant.

A plain page is available at the end of each section for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.

Section A: Changing Landscapes

Answer **either** questions 1 and 2 **or** questions 3 and 4 from your chosen landscape.

Make the fullest possible use of examples and data to support your answers.

Either: Coastal Landscapes

Answer questions 1 and 2 if this is your chosen landscape.

Figure 1: Porth Gwylan, Llyn Peninsula, Wales, UK



1. (a) Use **Figure 1** to suggest inputs into this coastal system.

[5]

.....

.....

.....

.....

.....

.....

Additional space for Question 1(b):

.....

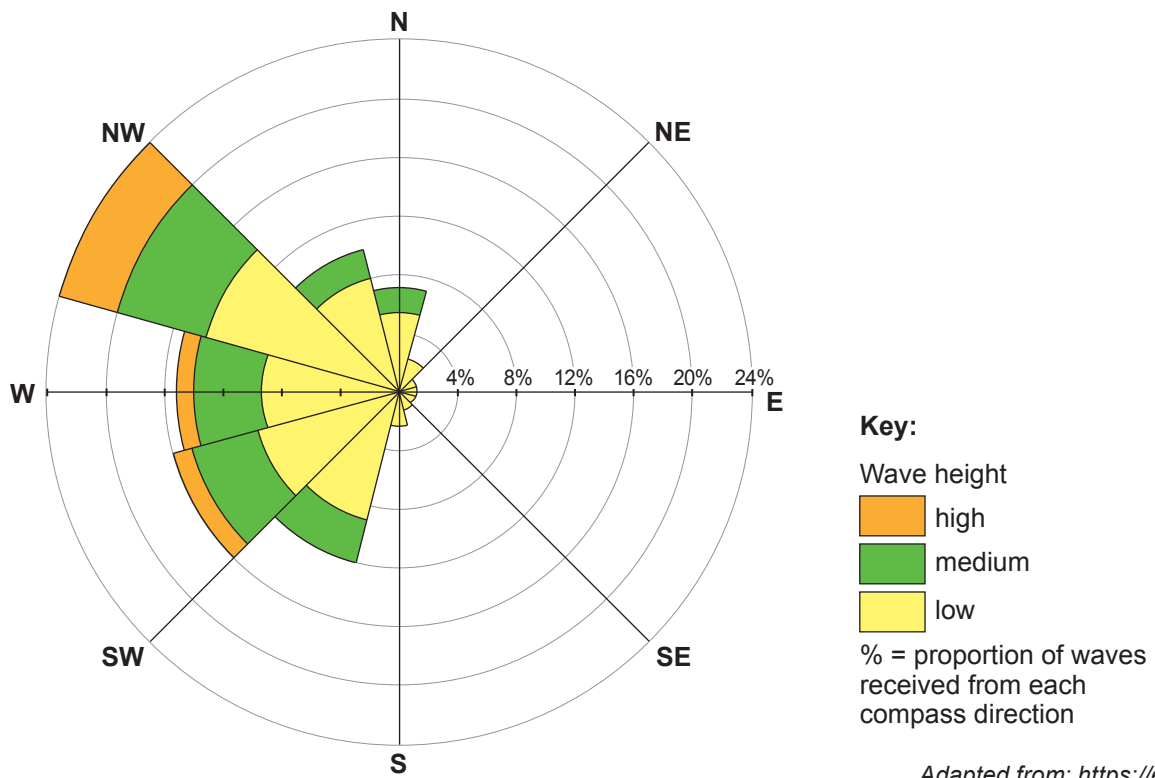
.....

.....

.....

Examiner
only

BLANK PAGE

Figure 2: Wave orientation and wave height at Vesterhaf Nord Offshore Wind Farm, Denmark

2. (a) Use **Figure 2** to describe the relationship between wave orientation and wave height.

[5]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

07
B1100101

.....

.....

.....

.....

Additional space for Question **2(b)**:

.....

.....

.....

.....

Or: Glaciated Landscapes

Answer questions 3 and 4 if this is your chosen landscape.

Figure 3: Glacier Valley, Alaska, USA

B110U101
09

3. (a) Use **Figure 3** to suggest inputs into this glacial system.

[5]

.....

.....

.....

.....

.....

.....

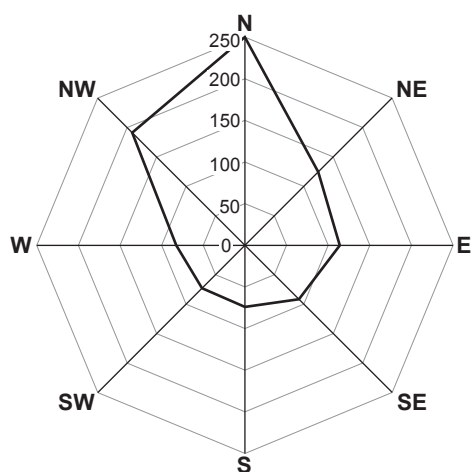
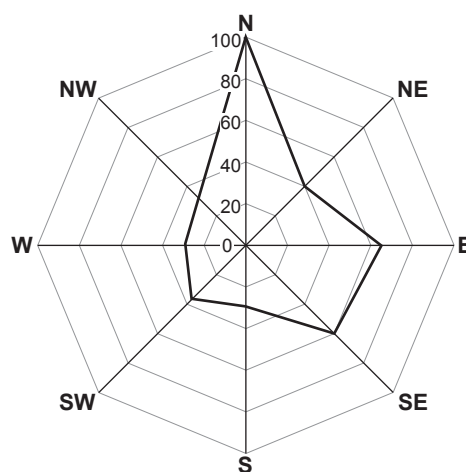
.....

.....

.....

.....

[10]

Figure 4: Orientation, number and area of Italian glaciers, 2006–2007**Figure 4a: Number of glaciers****Figure 4b: Total area (km²)**Source: www.researchgate.net

4. (a) Use **Figure 4** to describe the relationship between number and area of glaciers. [5]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[15]

.....

.....

.....

Additional space for Question 4(b):

.....

.....

.....

.....

BLANK PAGE

Section B: Tectonic Hazards

Answer all questions.

Make the fullest possible use of examples and data to support your answers.

Figure 5: Images of Palu, Sulawesi, Indonesia before and after the tsunami, 28 September, 2018

Figure 5a: 17 August, 2018

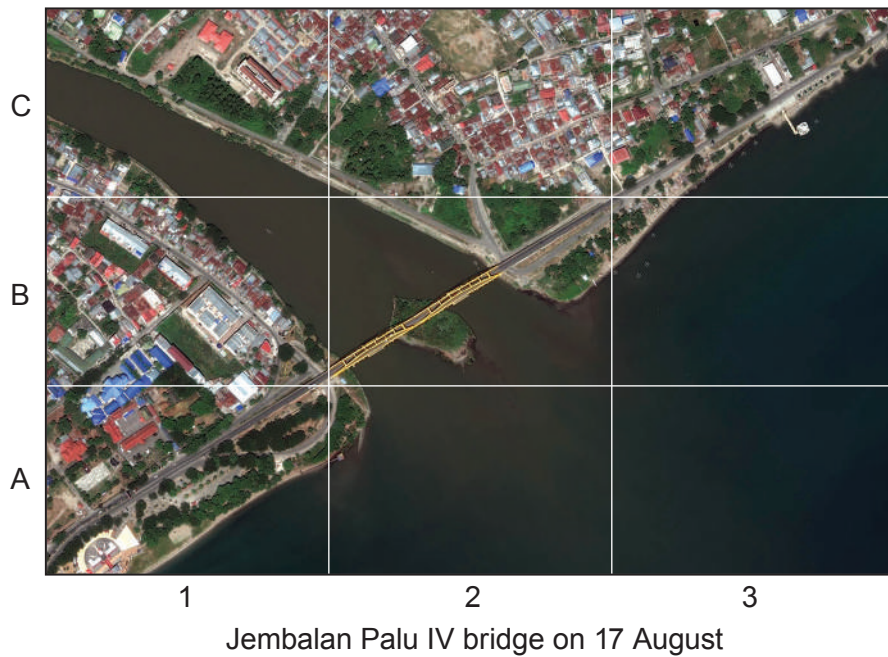
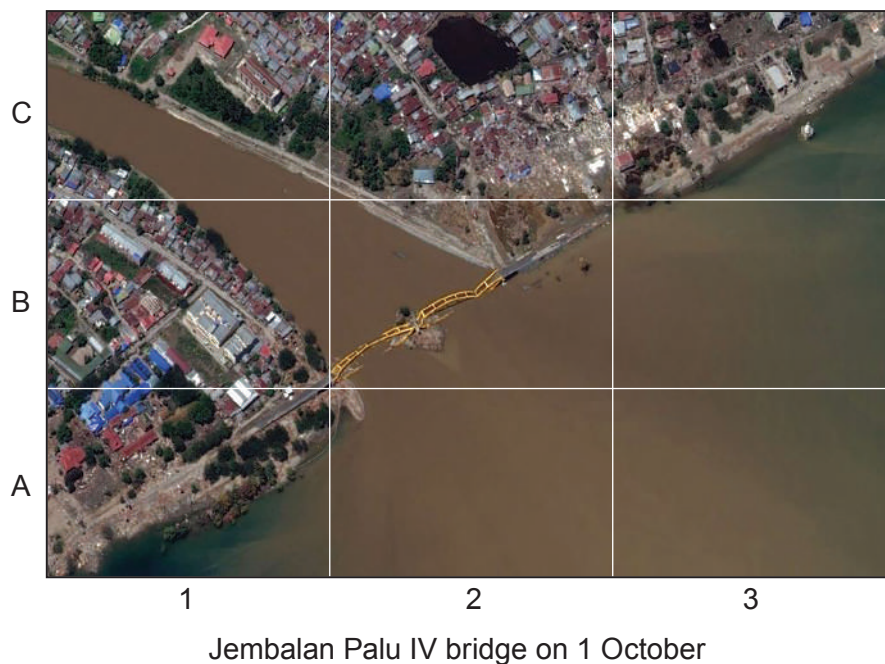


Figure 5b: 1 October, 2018



Source: www.abc.net.au

5. (a) Use **Figure 5** to identify impacts of the tsunami.

[5]

Examiner
only

.....

.....

.....

.....

.....

.....

.....

.....

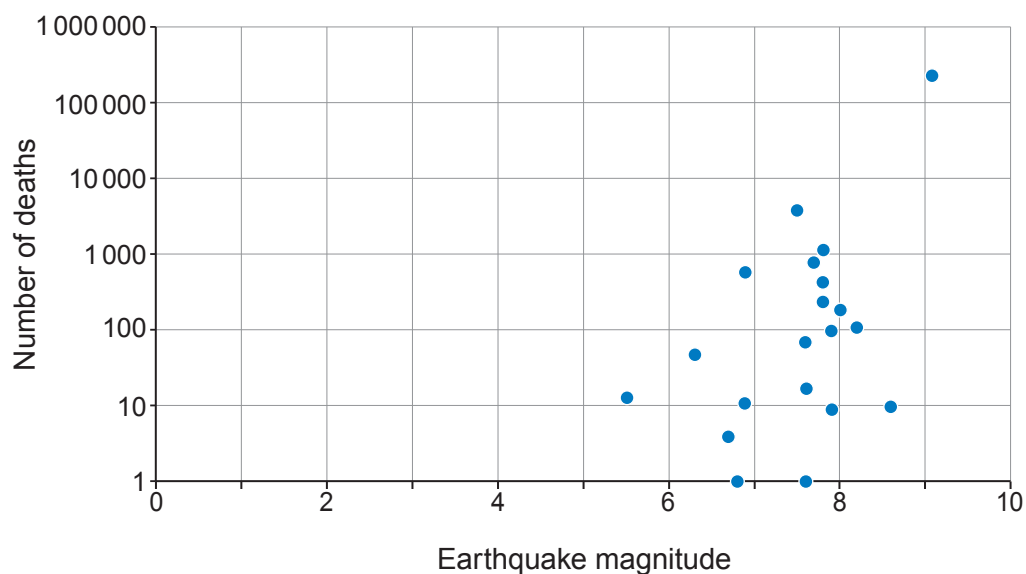
.....

.....

.....

BLANK PAGE

Figure 7: Number of deaths resulting from earthquakes of varying magnitudes in Indonesia, 1927 – 2018



- (c) (i) Use **Figure 7** to estimate the magnitude of the earthquake that had the highest death toll. Give your answer to 1 decimal place. [1]

.....

- (ii) Suggest **one** reason for the use of a logarithmic scale to display these data. [2]

.....

.....

.....

.....

- (iii) Explain why a scatter plot is an appropriate technique for displaying these data. [3]

.....

.....

.....

.....

.....

- (iv) State and justify **one** alternative graphical technique that could be used to present the data for earthquake magnitude shown in **Figure 7**. [3]

Graphical technique

Justification

.....

.....

.....

- (d) Outline the processes that operate at **one** of the following converging plate margin types: [8]

(i) oceanic/oceanic

or

(ii) oceanic/continental

or

(iii) continental/continental

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

- [12]

Additional space for Question 5(e):

.....

.....

.....

.....

Examiner
only

6. (a) Examine the economic and social impacts of **two** tsunami events.

[15]

(b) 'Urban populations are more at risk from tectonic hazards than rural populations.'
Discuss. [20]

QUESTION 7 CONTINUES OVERLEAF

Section C: Challenges in the 21st Century

Answer all questions.

Make the fullest possible use of examples and data to support your answers.

7. To what extent is place meaning altered by physical processes? [10]

In your answer to question 7, you may make use of the material in **Figures 8a** and **8b** and apply your own knowledge and understanding.

Figure 8a: Naples and Mt. Vesuvius, Italy



Figure 8b: Francois, a fishing village in a fjord, Newfoundland, Canada



.....

.....

.....

.....

Turn over.

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting or typing. There are no margins, text, or other markings on the page.

[illegible]

[illegible]