

## **A level Geography**

**H481/01** Physical systems

### **Question Set 1**

Coastal landscapes

- 1 (a) Explain the influence of sea level rise and geomorphic processes in the formation of rias. [8]
- (b) Study **Table 1**, which shows wave height off the coast in the United Kingdom on 28<sup>th</sup> November 2015.
- | Time            | 0100 | 0300 | 0500 | 0700 | 0900 | 1100 | 1300 | 1500 | 1700 | 1900 | 2100 | 2300 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Wave height (m) | 3    | 3    | 2    | 2    | 3    | 5    | 4    | 4    | 5    | 5    | 6    | 6    |
- Table 1 Wave height off the coast in the United Kingdom on 28<sup>th</sup> November 2015**
- (i) Calculate the mean wave height for the data shown in **Table 1**. You must show your working. [2]
- (ii) Calculate the standard deviation for the data shown in **Table 1**. You must show your working and give your answer to 2 decimal places. [4]
- (c) Study **Fig. 1**, a coastal landscape in the United Kingdom. With reference to **Fig. 1**, explain which geomorphic processes are the most influential in forming landform **A**. [3]
- (d)\* 'Human activity influences coastal landscape systems more than physical factors'. To what extent do you agree with this statement? [16]

**Total Marks for Question Set 1: 33**

## Resource Materials

- 1 (b) (ii) Standard deviation formula

$$\sigma = \sqrt{\frac{\sum [x - \bar{x}]^2}{n}}$$

- (c) Fig. 1 - Coastal landscape in the United Kingdom



A



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