



Level 7 SAT question

7.2 Below is a list of some of the processes which occur in the rock cycle.

- A.** Sediment grains collect in layers on the sea floor.
- B.** Crystals of new minerals are formed when mudstone is heated.
- C.** Large crystals form when magma cools deep below the Earth's surface.
- D.** Sediment grains are cemented together when they are buried beneath more layers of sediment.
- E.** A glassy rock forms when magma cools quickly
- F.** Mineral crystals become aligned (or foliated) when rocks are affected by high temperature and high pressure deep in the Earth's crust.

(i) Give the letter of **one** igneous process.
..... 1 mark

(ii) Give the letter of **one** metamorphic process.
..... 1 mark

(iii) Give the letters of the **two** processes that lead to the formation of sandstone. They should be written in the correct order.
..... and then 2 marks

(iv) Statements **B** and **C** above were written to explain the appearance of two rock samples that were found only a few metres apart. Suggest a likely relationship between the two rocks.
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..... 1 mark

Maximum 5 marks