Extension Question:
Igneous & Metamorphic Processes

E.6. Figure 6a shows some sedimentary rocks that have been intruded by two igneous bodies **A** and **B.**

Fig. 6a

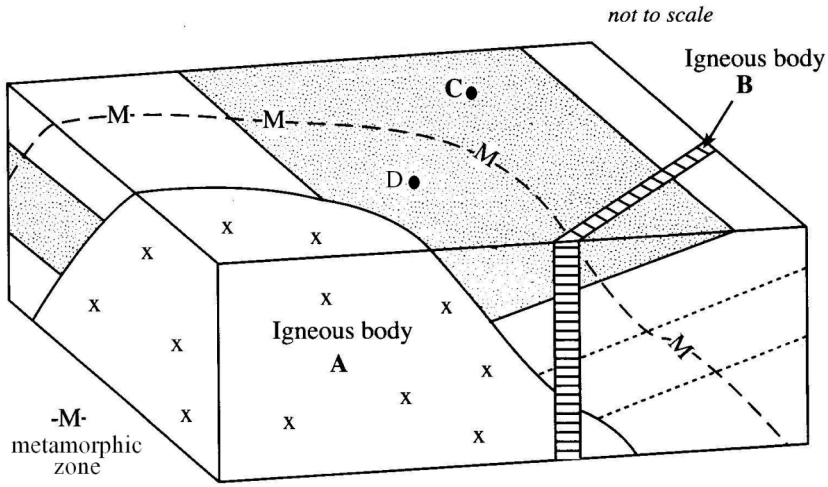
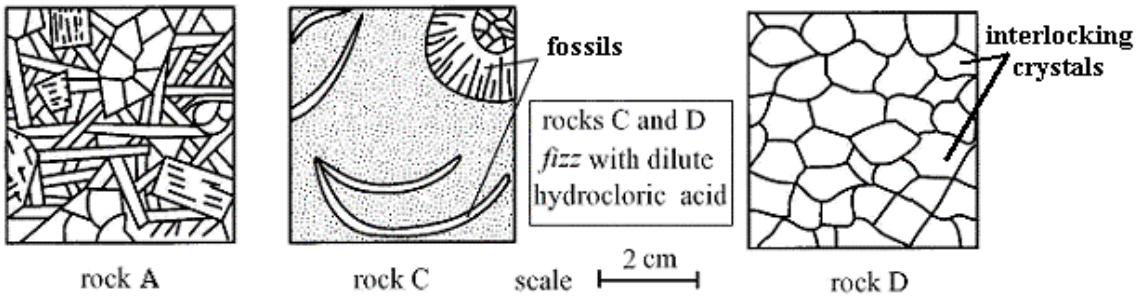


Figure 6b (below) shows polished surfaces of three types of rock from **Figure 6a.**



(a) Rock **A** was collected from igneous body **A.**
- (i) Using the scale, write down whether it is *coarse*, *medium* or *fine*-grained
- (ii) How would the grain size of igneous body **B** differ from igneous body **A**? Give a reason for your answer.

(b) Rocks **C** and **D** in **Fig. 6b** were collected from locations **C** and **D** on **Fig. 6a.**
- (i) State **one** piece of evidence to suggest that rock **C** is most likely to be a *sedimentary* rock.
- (ii) Rocks **C** and **D** both give a fizzing reaction when a drop of dilute hydrochloric acid is placed on them. What does this tell you about them?

(c) Rock **D** is a *metamorphic* rock. It once looked like rock **C.**
- (i) State **two** ways in which rock **D** is different in appearance from rock **C.**
- (ii) State the correct rock names for rocks **C** and **D**.
- (iii) Explain how rock **C** was metamorphosed to become rock **D**.