Guide to the AS level geology exams

You have 2 papers:

Component 1 - Geological enquiries (1 hour 30 minutes) 60 marks (40%)

Component 2 - Foundation geology (1 hour 30 minutes) 90 marks (60%)

<u>COMPONENT 1</u> - Questions are based on a B&W map, photographs and specimens. The questions will test any part of the year 12 work. There will be a cross-section question.

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GCE AS – NEW

B480U10-1

S19-B480U10-1

eduqas Part of WJEC

GEOLOGY – AS component 1
Geological Enquiries

MONDAY, 13 MAY 2019 – MORNING

1 hour 30 minutes

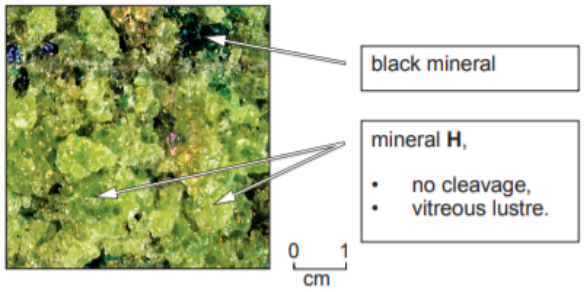
ADDITIONAL MATERIALS

In addition to this examination paper, you will need:

- the Resource Sheet
- **Specimens B, C, G** and **K**
- geological equipment for testing specimens
- the Mineral Data Sheet
- a calculator
- a protractor

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	10	
2.	13	
3.	5	
4.	4	
5.	10	
6.	6	

Photograph 1 For use in Question 1

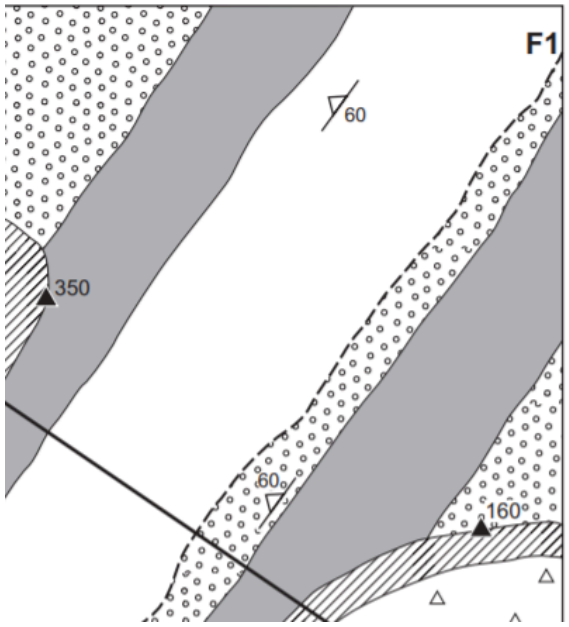


Photograph 2 For use in Questions 2 and 3

The topographic profile below was taken along the line **X-Y** on **Map 1**.

Complete the sketch of the geological cross-section along this line using **Map 1**.

- draw the rock units. Use similar ornament, or letters, for those as on **Map 1**.
- the top and base of **Rock Unit B** has been added.
- draw and label any **fold axes**, with the correct symbol.
- draw **arrows** to show the relative movement of any faults.
- mark on the extent of any metamorphic aureoles.
- **project** the rock units and structures **above** the ground surface to illustrate any cross-cutting relationships. [12]



The rock units are not in order of age. Their ornament is not necessarily represer of rock type.

Rock Unit A

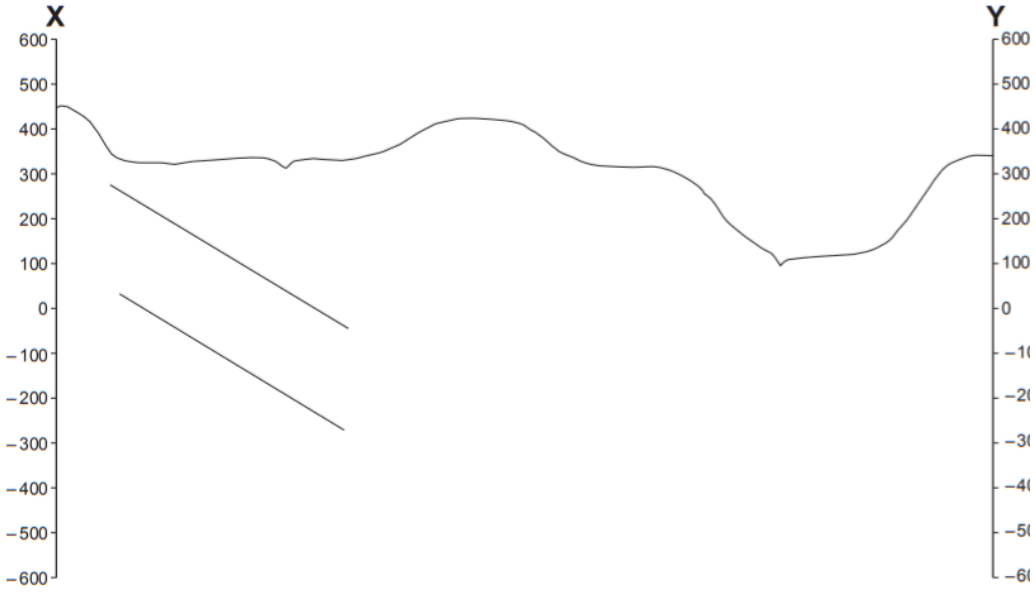
Rock Unit B (Specimen B, Specimen K, Photograph 2, Photograph 3,

Rock Unit C (Specimen C)

Rock Unit D (Photograph 1)

Rock Unit E

Rock Unit F



COMPONENT 2 - This paper has data response questions covering all sections of the year 12 work.

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GCE AS – NEW

B480U20-1

S19-B480U20-1-R1

eduqas Part of WJEC

GEOLOGY – AS component 2
Foundation Geology

FRIDAY, 17 MAY 2019 – AFTERNOON

1 hour 30 minutes

ADDITIONAL MATERIALS

In addition to this examination paper, you will need:
the Mineral Data Sheet
a calculator
a protractor

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	**14**	
2.	**14**	
3.	**18**	

3. **Figure 3a** is a model showing the relationship between stress and strain within the Earth. Line **P** models deformation at a depth of 5 km. Line **Q** models deformation at a depth of 40 km.

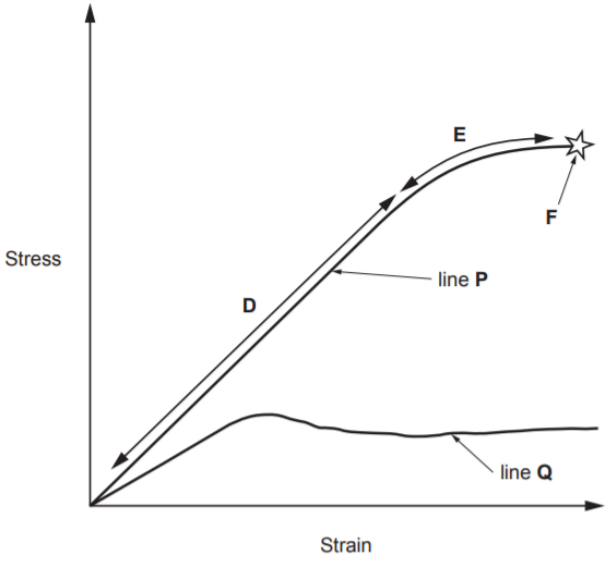

Figure 3a

Refer to **Figure 3a.**

(a) (i) State the type of deformation that occurs at **D**, **E** and **F**. [3]

D ..... **E** ..... **F** .....