

**Section 1: Multiple Choice**

**Answer section**

Circle your answer in the section below:

- |   |  |
|---|--|
| 1. A <input checked="" type="radio"/> B C D | 9. <input checked="" type="radio"/> A B C D  |
| 2. A B C <input checked="" type="radio"/> D | 10. <input checked="" type="radio"/> A B C D |
| 3. A B C <input checked="" type="radio"/> D | 11. A <input checked="" type="radio"/> B C D |
| 4. A B <input checked="" type="radio"/> C D | 12. A <input checked="" type="radio"/> B C D |
| 5. A B C <input checked="" type="radio"/> D | 13. A B <input checked="" type="radio"/> C D |
| 6. <input checked="" type="radio"/> A B C D | 14. A <input checked="" type="radio"/> B C D |
| 7. A <input checked="" type="radio"/> B C D | 15. A B C <input checked="" type="radio"/> D |
| 8. A B C <input checked="" type="radio"/> D |  |

Total for Section 1: \_\_\_\_\_ / 15 marks

Total for Section 2: \_\_\_\_\_ / 35 marks

Final Total: \_\_\_\_\_ / 50 marks

## SECTION 2: WRITTEN

35 marks

Write your answers in the spaces provided.

1 What term best describes each of the following:

A the study of rocks.

Geology.

B the layer on earth that we live on

Crust.

(2 marks)

2. Explain the difference between weathering and erosion using a specific example.

① weathering - physical & chemical &

biological process - breaks large

pieces of rock into smaller pieces

① + movement of small pieces of rock away

from where they weathered - erosion

eg Ocean cliff - waves hitting cliffs

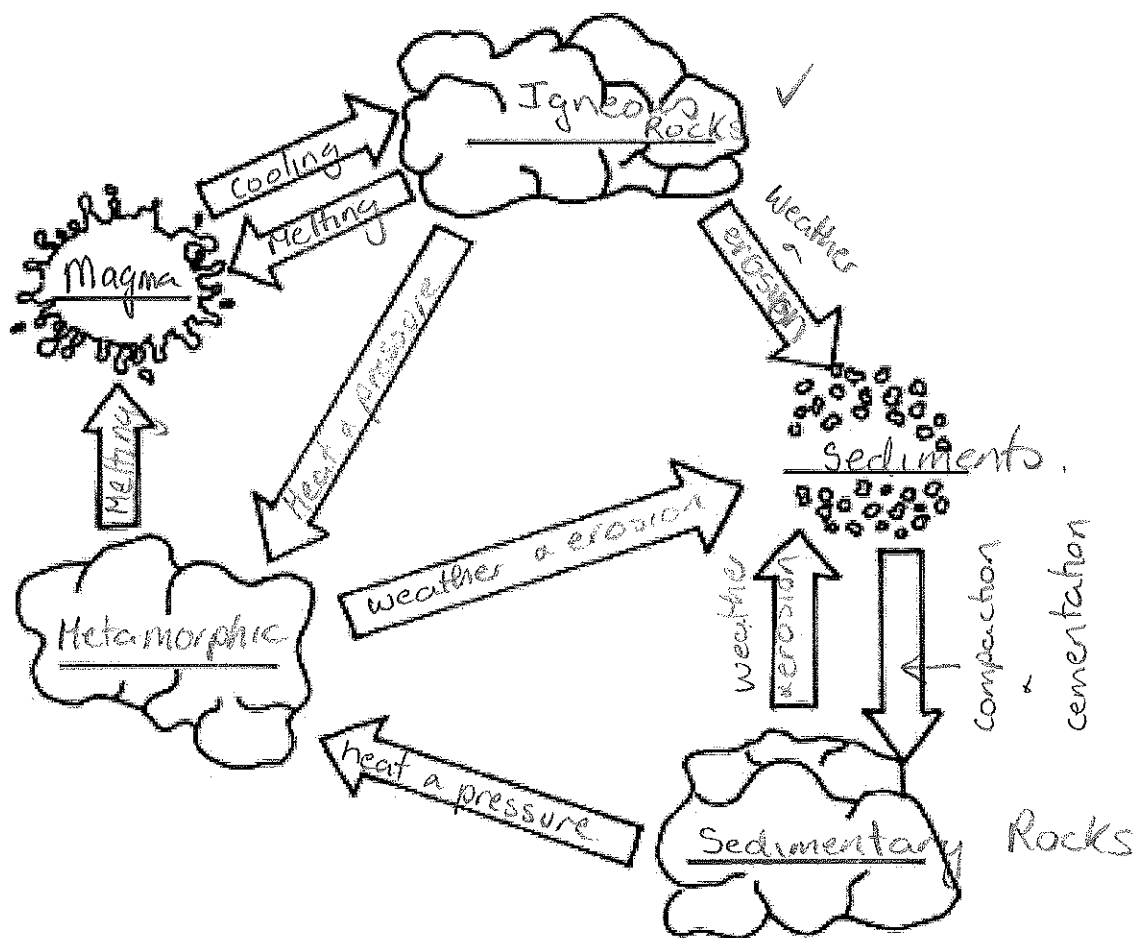
break rock into smaller pieces

+ water carries smaller pieces further  
out to sea

(3 marks)

3. Using the following terms label the diagram of the rock cycle below.

Magma ✓	Igneous Rocks ✓	weathering and erosion ✓
Metamorphic Rocks ✓	melting ✓	heat and pressure ✓
Cooling ✓	Sediments ✓	weathering and erosion ✓
melting ✓	heat and pressure ✓	Sedimentary Rocks ✓
weathering and erosion ✓	compaction and cementation ✓	



(1/2 mark each \_\_\_\_/7 marks)

**4. Circle True or False for each of the following sentences:**

- A. Elements are usually found on their own in the Earth's crust. True / False
- B. Fossils are usually found in igneous rock. True / False
- C. Extrusive rocks are formed underground. True / False
- D. Ores are valuable rocks or minerals. True / False
- E. Diamond is the hardest mineral. True / False
- F. Minerals are naturally occurring materials. True / False
- G. Pumice is a type of igneous rock. True / False
- H. Rocks with the largest crystals cooled the fastest. True / False
- I. The oldest fossils are usually found deepest in the Earth. True / False

(1 marks each: \_\_\_\_ / 9 marks)

**5. Draw a line (triangle to triangle) to match the resource to its mining location in Western Australia**

- | <u>Resource</u>  |   | <u>Location</u>                      |
|------------------|---|--------------------------------------|
| a) Diamonds      | ▶ | 1 Capel, near Busselton and Eneabba  |
| b) Mineral sands | ▶ | 2 Argyl, near Kununurra              |
| c) Gold          | ▶ | 3 Jarrahdale, Wagerup and Boddington |
| d) Bauxite       | ▶ | 4 Kalgoorlie                         |
| e) Iron ore      | ▶ | 5 Tom Price, Newman and Paraburdoo   |

(1 mark each: \_\_\_\_ / 5 marks)

6. Consider the following table showing the amount of different elements in the Earth's crust. Draw a graph showing the elements 1-5 and their corresponding percentage.

The graph paper is on the next page.

(5 marks)

**Table 5.1 : The Major Elements of the Earth's Crust**

SL No.	Elements	By Weight(%)
1.	Oxygen	46.60
2.	Silicon	27.72
3.	Aluminium	8.13
4.	Iron	5.00
5.	Calcium	3.63
6.	Sodium	2.83
7.	Potassium	2.59
8.	Magnesium	2.09
9.	Others	1.41

①

①

Title

①

②

Type of graph

column with spaces

etc



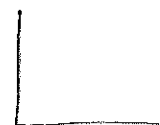
①

③

Axis.

—

% weight.



Elements.

①

④

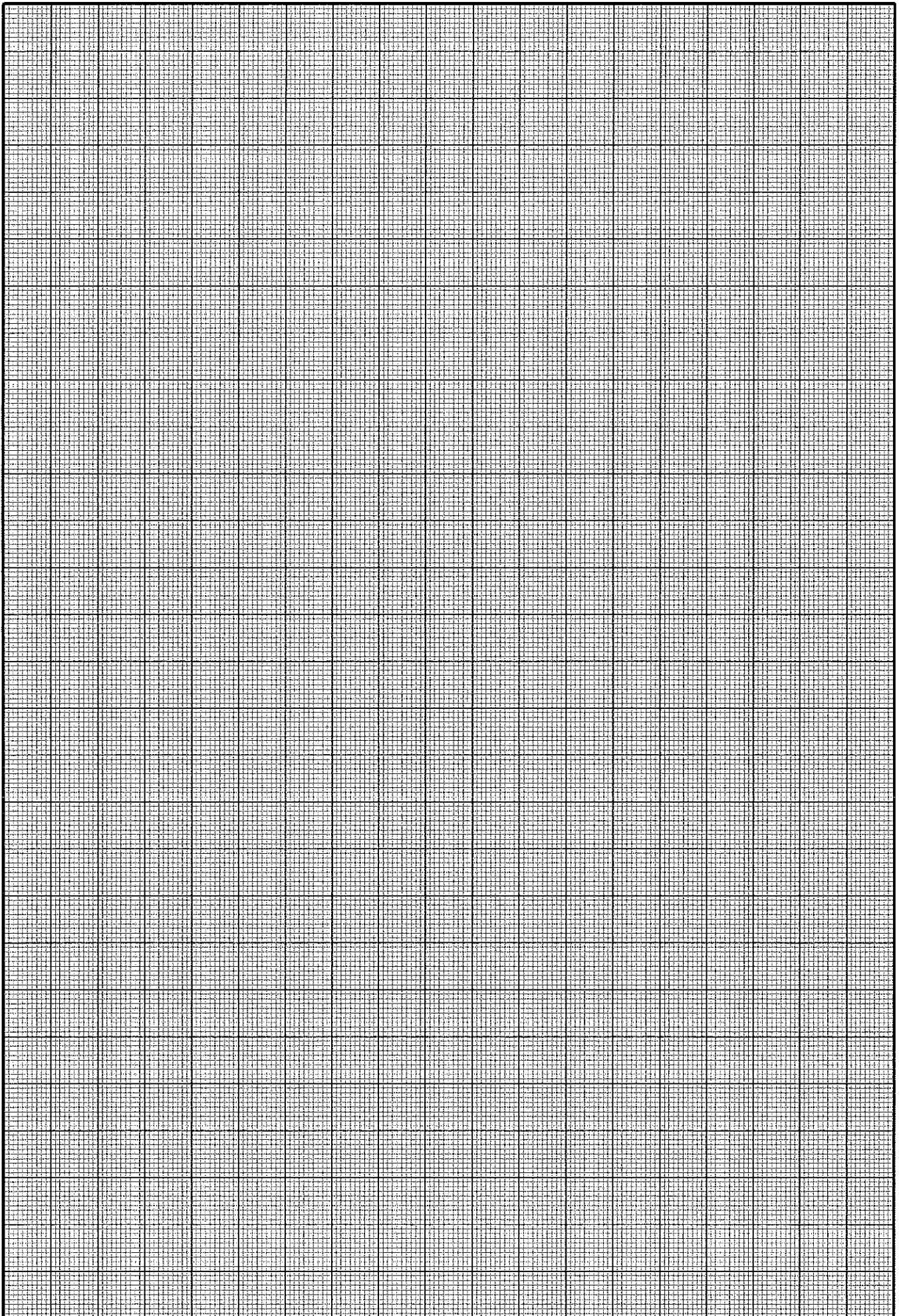
Scale

①

⑤

Key

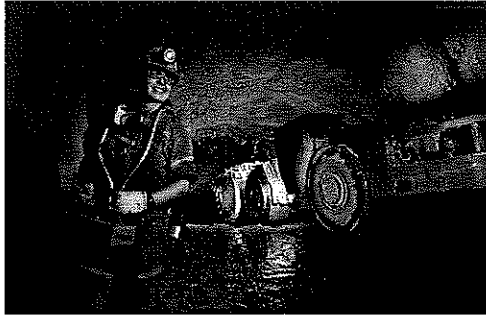
Graph paper for question 6.



7. There are four (4) main different types of mining:

- 1 Open cut
- 2 Underground mining
- 3 Leach mining
- 4 Dredging

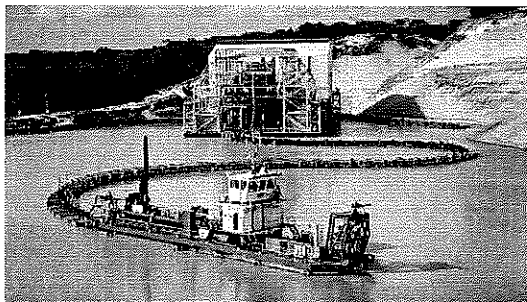
Examine the following images and label each one as one of the above.(4 marks)



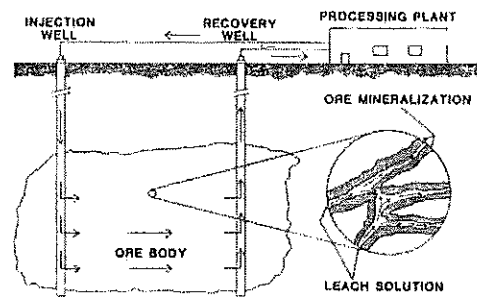
2 Underground



1 Open Cut.



4 Dredging.



3 Leach mining.

END OF TEST (OUT OF 50 MARKS)

