



education

MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

GENERAL EDUCATION AND TRAINING

SOCIAL SCIENCES

GEOGRAPHY

PAPER 1

TERM 3 EXAMINATION

SEPTEMBER 2022

GRADE 9

MARKS: 50

DURATION: 1 HOUR

Name & Surname: _____

Class: _____

INSTRUCTIONS:

1. This question paper comprises of **THREE** compulsory questions.
2. Study all the sources and texts thoroughly as it contains clues that will assist you in answering some of the questions.
3. Take note of the mark allocation for each question to guide you on how to answer.
4. Write neatly and legibly.

QUESTION 1

MULTIPLE CHOICE

Choose the correct answer from the options given in brackets for each of the following sentences. Write only the letter corresponding to the correct answer in the provided box.

1.1 The process that breaks down rocks into smaller pieces is called ...

(1)

- A. weathering
- B. freeze thaw
- C. erosion
- D. hydrolysis

1.2 A chemical process whereby iron minerals in rocks react with dissolved oxygen to produce a red or yellow colour, called rusting, is called...

(1)

- A. hydrolysis
- B. exfoliation
- C. oxidation
- D. carbonation

1.3 A process whereby hard rock expands during hot days and contracts during cold nights to eventually split in layers (like a onion) causing rounded shaped rocks, is called ... (1)

- A. Blocking
- B. carbonation
- C. exfoliation
- D. oxidation

1.4 Water has the power to split rocks because when it freezes, it:

(1)

- A. Contracts
- B. Evaporates
- C. Expands
- D. Remain the same

1.5 The following is not an example of chemical weathering:

(1)

- A. Oxidation

B. solution

C. carbonation

D. frost shattering



(5)

1.2 Refer to the figure below showing two forms of weathering and then state whether the statements below are TRUE or FALSE. Write only the question number and your choice of answer.

A



B



1.2.1 Both figures above show physical weathering. _____

1.2.2 Figure A shows exfoliation. _____

1.2.3 Warm climates are necessary for B. _____

1.2.4 Figure A is most common in the hot dry arid regions of South Africa. _____

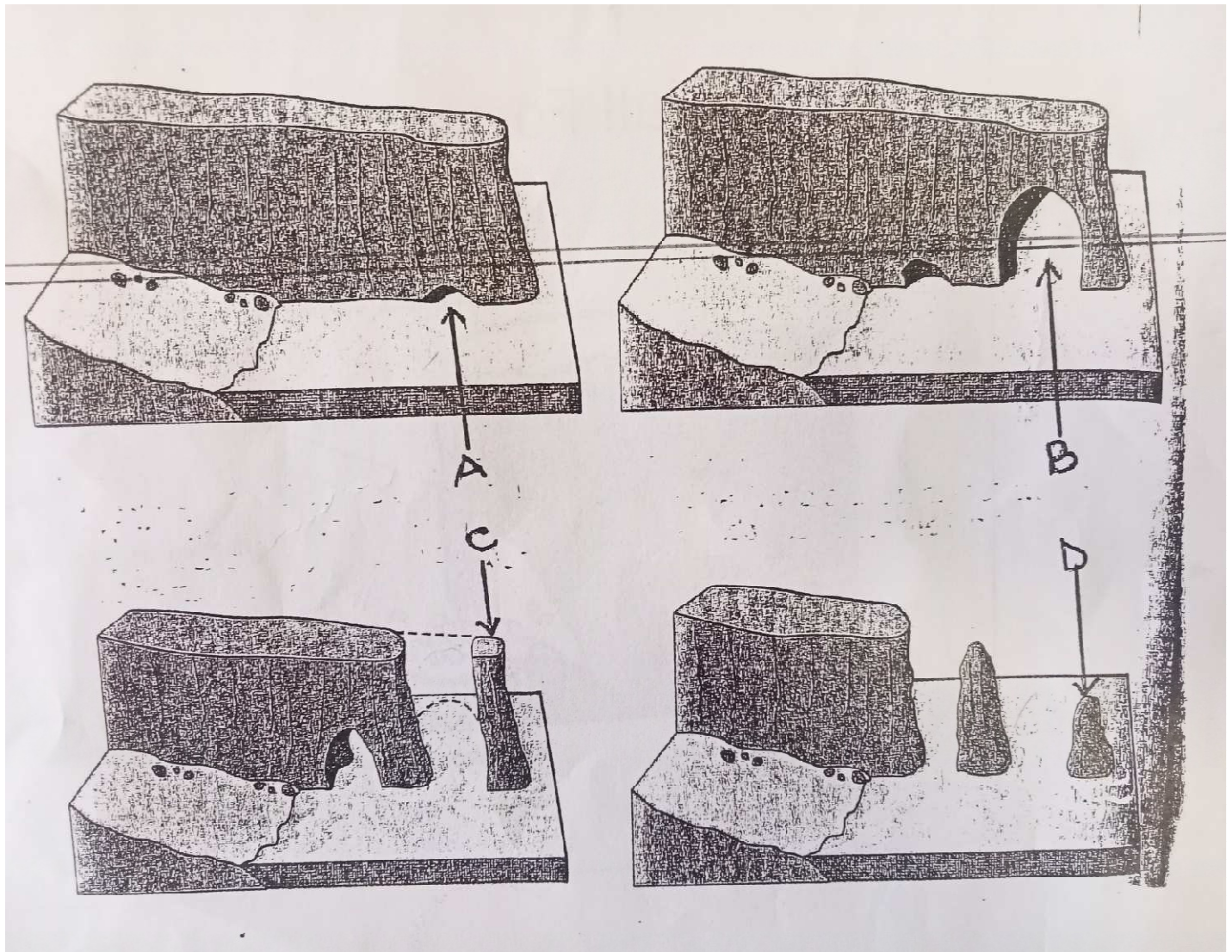
1.2.5 Weathering is the movement of eroded material. _____

(5)

1.3 Differentiate between weathering and deposition.

(4)

1.4 Sea-features of erosion and deposition associated with wave action.



1.4.1 The above diagrams show the marine (sea) erosion features. Then label letter.

(4)

- (A) _____
- (B) _____
- (C) _____
- (D) _____

[19]

QUESTION 2

2. Read the extract about factors that contribute to soil erosion below and answer the question that follow.

Factors that contribute to soil erosion.

Aside from desertification, there is no doubt that human activities are a major cause of soil erosion in general. Construction of roads and buildings, logging, mining, and agricultural production have resulted in large amounts of soil erosion in the U.S. and around the world. When soil erodes, it is usually the topsoil that erodes first, which means that the potential of the eroded area to produce food or forage is greatly reduced. In addition, the eroded soil may be deposited in rivers or lakes. The cost of removing the deposits may be considerable, and if the eroded soil was contaminated in any way the deposited soil may spread the contamination over a wider area.

Agricultural production, including forage production, involves removing vegetation from the soil surface. Ploughing, cultivating, mowing, and grazing are examples of how vegetation is removed in forage production. The extent of soil erosion depends to a great degree on how the removal of vegetation is handled. Leaving the soil surface with little or no vegetation provides a prime opportunity for soil to be eroded by wind or water moving across the soil surface.

[Adapted from The National Forage and Grasslands Curriculum]

- 2.1 What is soil erosion.

(2)

- 2.2 Quote four human activities from the extract above which are a major cause of soil erosion.

(4)

- 2.3 Why does deforestation (chopping down of trees) speed up soil erosion?

(2)

2.4 Give four example of how vegetation is removed in forage production. (4)

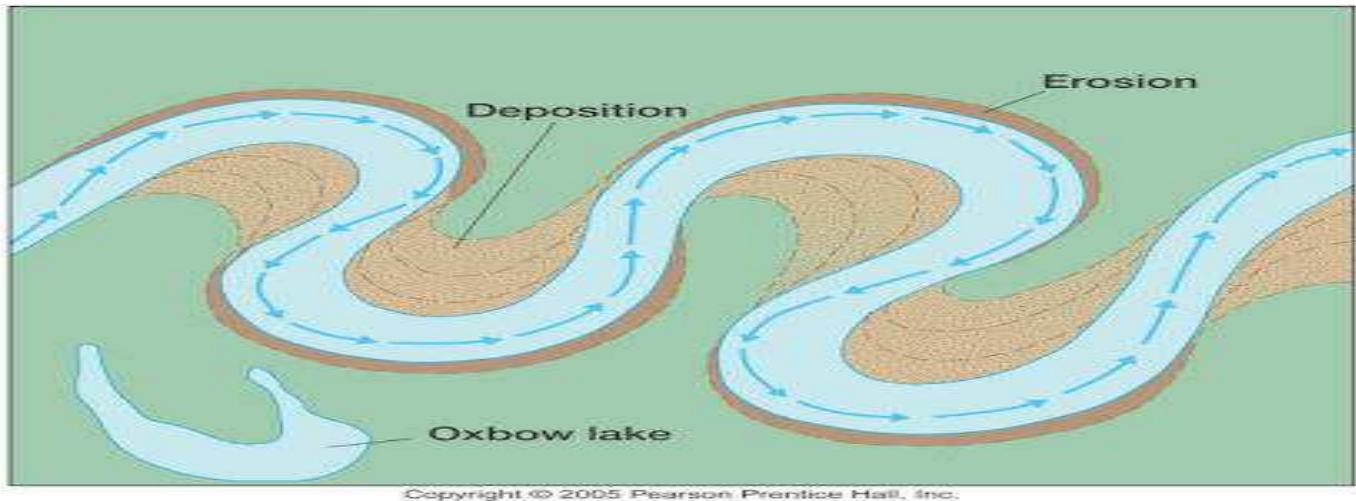
2.5 In a paragraph of not more than eight lines, discuss ways in which soil erosion can be prevented on farms. (8)

[illegible]

[20]

QUESTION 3

3.1 Study the diagram below and answer the questions that follow.



3.1.1 What is a meandering river?

(2)

3.1.2 How is an oxbow lake formed?

(4)

3.1.3 In which course of river meanders are formed?

(2)

3.2 Mention three types of weathering.

(3)

[11]
[TOTAL = 50]