ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

GEOGRAPHY 6037/1

PAPER 1

NOVEMBER SESSION 2022 3 hours

Additional materials:
Answer paper

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer any **four** questions in this paper.

Write your answers on the separate answer paper provided.
If you use more than one sheet of paper, fasten the sheets together.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part question.

Sketch maps and diagrams should be drawn wherever they serve to illustrate an answer.

You are reminded of the need for good English and clear presentation in your answers.

This question paper consists of 4 printed pages.

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Answer any **four** questions.

1 **(a)** The diagram below shows atmospheric instability.

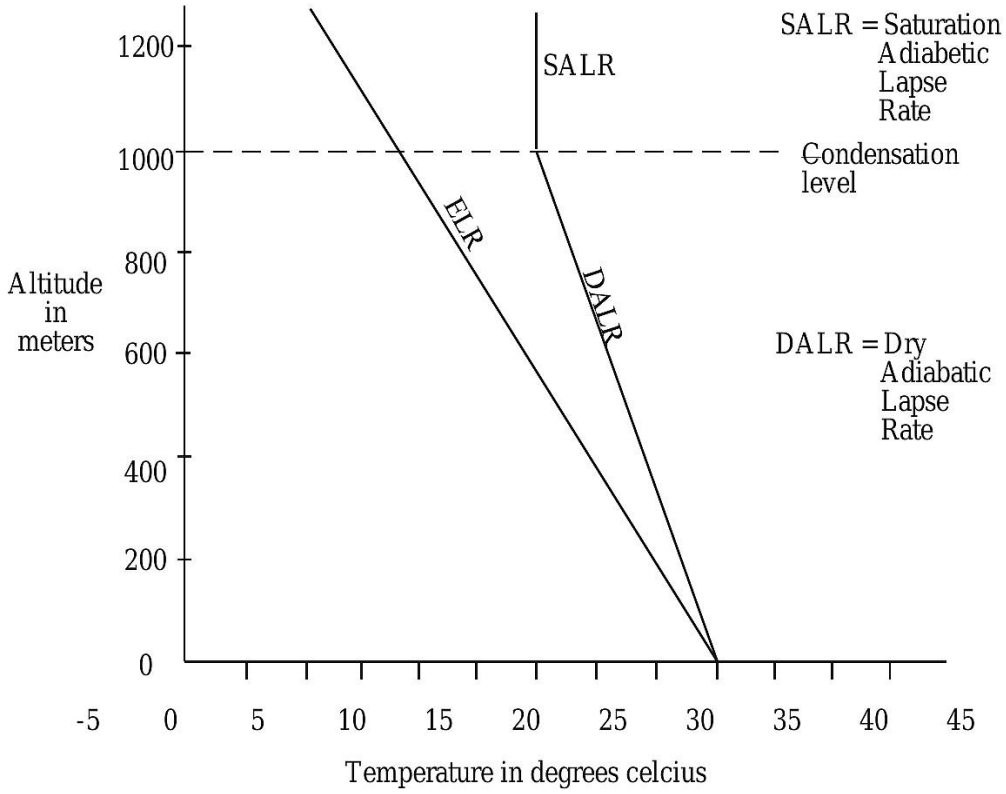


Fig. 1

With reference to the temperature – height diagram shown in **Fig. 1**,

(i) State the temperature of the rising air at 1 000 metres above sea level. [1]

(ii) Calculate the Dry Adiabatic Lapse Rate. [2]

(iii) Explain the short wave radiation [3]

(b) **(i)** Describe and explain the conditions that favour the development of tropical storms.

(ii) Explain the variations in wind speed and precipitation across the storm. [12]

(c) Evaluate measures that can be taken to reduce the adverse effects of Tropical storms. [7]

2 **(a)** Draw a labelled diagram to show a parallel retreat and slope decline. [6]

(b) Outline the development of slopes [12]

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(c) How may human activities modify slope forms. [7]

3 **(a)** Briefly describe underground water and evapotranspiration [6]

(b) Outline and explain the main factors that influence evapotranspiration [12]

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(c) Explain how human activities influence the rate of transpiration [7]

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4 **(a)** Describe the characteristics of vegetation in a Tropical rainforest [6]

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(b) Outline the challenges faced in trying to conserve the Tropical rainforest ecosystem. [12]

(c) Assess the success of measures taken to improve soil quality. [7]

5 **(a)** Describe the causes of drought, [6]

(b) Write an explanation account of the effects of floods on the environment. [12]

(c) Explain any **six** ways in which the effects of floods can be minimizes. [7]

6 **(a)** Describe the process of scarp retreat as it occurs on slopes. [6]

(b) With the aid of diagrams show how deep weathering may form [12]

(c) Explain how human activities increase deep weathering. [7]

7 **(a)** Explain in briefly how overland flow occur [6]

(b) With the aid of annotated diagrams, explain how the shape of river Hydrographs is influenced by vegetation and rock type. [12]

(c) Discuss human activities impact hydrological cycle [7]

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[Turn over

8 **(a)** Outline the characteristics of a soil profile. [6]

(b) With reference to areas you have studied explain the measures that can be taken to reduce soil erosion [12]

(c) To what extent human actives increases soil erosion [7]

9 **(a)** Give the main causes of drought. [6]

(b) Evaluate attempts that have been made to reduce the effects of drought
. [12]

(c) To what extent risk of drought increasing by human activities. [7]

10 **(a)** Draw labelled diagrams to illustrate the main types of volcano. [6]

(b) Describe and explain landform development in areas that have been affected by volcano. [12]

(c) How have local communities benefitted from volcano. [7]

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