

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

GEOGRAPHY

6037/1

PAPER 1: PHYSICAL COMPONENT

JUNE 2019 SESSION

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 5 printed pages and 3 blank pages.

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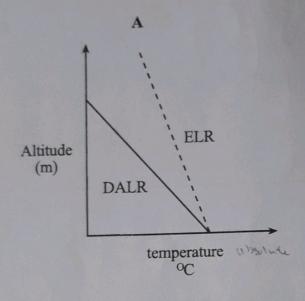
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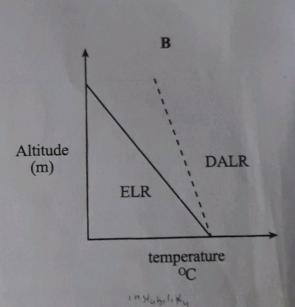
Turn over

- 1 (a) Give the meaning of
 - (i) Dry adiabatic lapse rate (DALR)
 - (ii) Environmental lapse rate (ELR)

[6]

Fig.1.1 shows weather conditions.





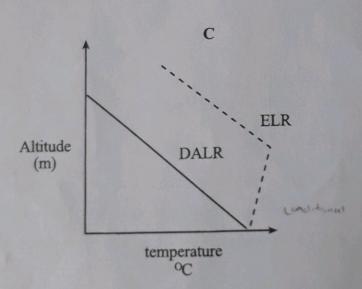


Fig.1.1

(b) Explain the conditions shown and show resultant weather for each of A, B and C.

[12]

(c) Evaluate measures that can be taken to reduce ozone depletion.

[7]

2 (a) Briefly define the terms rainfall intensity, infiltration capacity and stemflow.

[6]

(b) Photograph 2.A below shows components of the drainage basin.

Photo 2.A



Outline the stores shown. [2] (i) Explain variations in the rate of interception, overlandflow and (ii) [10] infiltration. Assess the attempts that can be made to reduce the occurrence of floods. [7] (c) Describe albedo as used in climatology. 3 (a) [6] Explain the effects of EL Nino and La Nina in Zimbabwe. (b) [12] Assess the conventional methods of climate change adaptation. (c) [7] Draw labelled diagrams to show the ways in which water flows in a river (a) laminar, turbulent, helicoidal. [6] 6 Explain how human and natural factors influence the nature of the rising (b)

Examine the effectiveness of Indigenous Knowledge Systems (IKS) in

limb on a storm hydrograph.

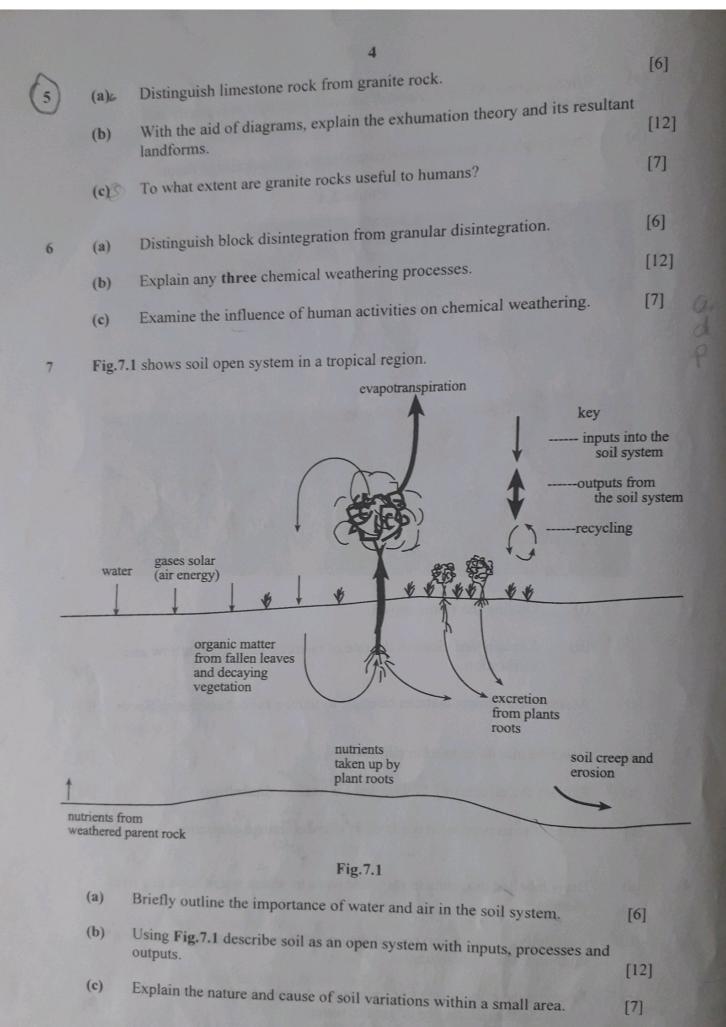
surveying the occurrence of ground water.

(c)

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[12]

[7]



			5		
(8)	(a)	Explai	n the terms 'Plagio-climax', 'Psammosere' and 'Halosere' [6]		
	(b)	(i)	Differentiate the structure of the tropical rainforest vegetation from that of the tropical grassland.		
		(ii)	Explain the structure of the tropical rainforest.	[12]	
	(c)	To wh	at extent have humans degraded the tropical grassland ecosystem?	[7]	
9	(a)	Distinguish constructive plate boundaries from destructive plate boundaries.			
	(b)	Expla	in any three landforms formed at subduction zone.	[12]	(
	(c)		s the measures that can be taken to reduce the impacts of juakes.	[7]	1
10	(a)	Briefl	y explain the terms stream morphometry and base flow.	[6]	
A.c	(b)	Explain the causes of river floods. Assess the effectiveness of measures that can be taken to reduce the impacts of river floods.		[12]	
	(e)			[7]	9
Human					
Stream bank,			Mar unal fives		
Veldgires			floors		
defension		tion	O nassard		
Mining		3	Ci) Resettement.		
	~	liqui atlan			

16) Early warning systems

reinforce buildings.

(1) strong foundation

urbunisation (4) Education (5) Seizmic buildings. industrialisation Subduction zone landforms seedon greeding. deep ocean trenthes mid oceanic ridges Island archs. valcanic peaks