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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION ARTS

GEOG 440: ARID AND SEMI-ARID LANDS MANAGEMENT

STREAMS: BED (ARTS) TIME: 2 HOURS

DAY/DATE: MONDAY 09/12/2019 11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

marks]

- Answer question ONE and any other TWO questions
- Sketch maps and diagrams should be used whenever they serve to illustrate an answer

1.	(a) Write short essays on the following			[8 marks]		
		(i)	Potential evapotranspiration	[2 marks]		
		(ii)	Aridity	[2 marks]		
		(iii)	Sahel	[2 marks]		
		(iv)	Precipitation	[2 marks]		
	(b)	What is Aridity Index and how is it determined		[4 marks]		
	(c)	Briefly discuss the causes of aridity		[6 marks]		
	(d)	Discuss the classification of arid and semi-arid areas on the basis of the Aridity				
			Index	[12		
marks	s]					
2.	(a)	Temperature and Precipitation are the key factors influencing arid climates. With				
		the aid of diagrams, describe the three rainfall patterns that distinguish the				
various			arid climate zones.	[12		

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	(b)	Besides temperature and precipitation, what other factors influence ari	idity?			
			[8]			
marks]					
2	(2)	Evaloin the various elections of anid varieties	[12			
3.	(a)	Explain the various classifications of arid vegetation	[12 marks]			
	(b)	Describe the characteristics of arid vegetation that make them specific	ally adapted			
		to the arid climate	[8 marks]			
4.	Assess the potential of Arid and Semi-Arid Lands (ASALs) in Kenya for development					
	and co	ontribution to the national economy.	[20 marks]			
5.	Discuss the challenges facing arid and semiarid areas globally and suggest possible					
	meası	ures for sustainable ASAL management in Kenya.	[20 marks]			
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