

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

GEOTHERMAL ENERGY TRAINING AND RESEARCH INSTITUTE MSC IN GEOTHERMAL ENERGY TECHNOLOGY

SPECIAL EXAMINATIONS

GET 4007: EARTH PROCESSES

DATE:	TIME: 3 HOURS
INSTRUCTIONS	

1) TIME ALLOCATED – 3 hours

2) There are FIVE QUESTIONS in this paper

3) Attempt THREE questions

4) QUESTION 1 IS COMPULSORY and worth 30 marks. The other two questions have equal marks of 15 each

5) This Paper will count for 60% of the total score of GET 4007. The other 40% will be earned from CATS and assignments

Question 1 [30 marks] – This question is Compulsory	
a) Briefly describe the different types of faults	

a)	Briefly describe the different types of faults	[6 Marks]	
b)	Briefly describe the driving forces of continental drift	[6 Marks]	
c)) Outline the factor which affect a stream ability to erode, transport and deposit sediment load		
	[6 Ma	rks]	
d)	Describe the causes of earthquakes and their associated seismic waves	[6 Marks]	
e)	Describe characteristic differences of three types of volcanoes	[6 Marks]	
Question 2 [15 marks] – This question is Optional			
a)	Briefly discuss the factors that affect the rate of weathering	[4 Marks]	
b)	Discuss erosion and give examples of agents of erosion	[5 Marks]	
c)	Discuss three different types of coasts	[6 Marks]	
Question 3 [15 marks] – This question is Optional			
a)	Discuss the various types of internal heat energy	[9 Marks]	
b)	Discuss ways in which streams transport sediments	[6 Marks]	
Question 4 [15 marks] – This question is Optional			
a)	Discuss at least six geological features resulting from wind processes	[10 Marks]	
b)	Discuss the various types of plate boundaries	[5 Marks]	
Question 5 [15 marks] – This question is Optional			
a)	Discuss the different types of remnant magnetism	[8 Marks]	
b)	Discuss the geological features resulting from groundwater processes	[7 Marks]	