**MOUNT KENYA UNIVERSITY**

**SCHOOL OF SOCIAL SCIENCES**

**DEPARTMENT OF LANGUAGES AND HUMANITIES**

**BACHELOR OF EDUCATION**

**UNIT NAME: PHYSICAL GEOGRAPHY**

**UNIT CODE: BHU1215**

**MAIN EXAM**

**TIME:2HOURS**

**INSTRUCTIONS:ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.**

1.a)Define :

 i) Physical geography. (2 marks)

 ii)The electromagnetic spectrum (EMS) (2 marks)

b)State ONE weakness of illustrating the origin of the universe through closed/oscillating big bang theory instead of open big bang theory. (2 marks)

c) Compare and contrast P and S seismic waves. (4 marks)

d) State any four properties of lithospheric plates. (4 marks)

e) List the steps you will follow in dating volcanic rocks from Longonot area using K-Ar method.(2 marks)

f) Differentiate between :

 i) Climate and weather. (2marks)

 ii) Meteors and meteorites. (2 myarks)

g)Briefly explain any TWO forces that

 i) Contribute to the earth’s shape. (4marks)

 ii) Influence atmosphere circulation. (4 marks)

2.a) Describe the internal structure of the earth. (10 marks)

 b) Explain the rock formation cycle giving examples of different rocks. (10marks)

3.a) Discuss FIVE evidences that support the continental drift theory. (10marks)

 b)Describe the nature of oceanic crust indicating major physiographic features.(10 marks)

4.a) Illustrate the vertical structures of atmosphere based on temperature variation .(10 marks)

b) Indicate the significance of the different components of the atmosphere to man and other living organisms. (10 marks)

5.Explain any five weather elements indicating how they are measured in a weather station.(20 marks)