**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)Explain how Coriolis forces and geostrophic winds operate. (6 marks)

b)Describe the components of the earth system. (10 marks)

c) Explain the differences between relative dating and absolute dating. (8 marks)

d) “The atmosphere is heated from below .” Discuss . (6 marks)

2.Describe the plate tectonics theory and demonstrate how lithospheric plates move.(20 marks)

3.Evaliuate the impact of materials on the earth’s surface on the land use.(20 marks)

4.Describe the latitudinal variations in pressure belts of the world. (20 marks)

5.Describe the structural arrangement of the atmosphere and explain the causes of temperature changes within it. (20 marks)