

MACHAKOS UNIVERSITY
UNIVERSITY EXAMINATIONS 2019/2020
SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION AND
BACHELOR OF ARTS

AGE 308 ARID AND SEMI ARID LANDS

DATE.....

TIME.....

INSTRUCTIONS:

ANSWER QUESTION ONE AND OTHER TWO QUESTIONS.

- 1 a). Differentiate between climate variability and climate change (4Mks)
- b). Explain the causes of aridity in three areas in different continents (9Mks)
- c). Giving examples, describe three anthropogenic sources of Green House Gases (6Mks)
- d). what makes different groups of people in ASALs vulnerable to climate risk (5Mks)
- d). Explain briefly how different communities adapt to climate change (6Mks)
2. a) Examine the main reasons why water supply is becoming a greater problem in arid regions than it was in the past (12Mks)
- b). What are some of the remedies for overcoming the problem (8Mks),
- 3 a). Examine the main processes that determine the nature of the soils in arid areas (12Mks)
- b). Discuss the relationship between soils and human activities within arid areas (8Mks)
- 4). Assess both the physical and human processes which contribute to land degradation in ASALS of East Africa (20Mks)
- 5). Discuss the circumstances under which ASALS can undergo economic development even if they have severe water shortage (20Mks)