

MACHAKOS UNIVERSITY

SUPPLEMENTARY EXAM

UNIT CODE: AGE 402 UNIT TITLE: SURVEYING

1a) Define the following types surveys (10 marks)

i)Topographic survey

ii)Hydrographic surveys

iii)Route survey

iv)property surveys

v)Aerial survey

b) Distinguish between plane and geodetic surveying (4 marks)

c)Differentiate between accuracy and precision in survey measurements (4 marks)

d) Describe any two mistakes that are committed during rod reading (4 marks)

e) Explain how random errors occur in surveying (8marks)

2a) Illustrate various methods of field management (8 marks)

b) Describe common mistakes in survey measurements (12 marks)

3a) Describe the operations of an Abney level in the measurements of slope angles (12 marks)

b) Explain how to calculate differences in elevation between points (8 marks)

4a) Discuss main uses of the prismatic compass (10marks)

b) Explain common mistakes in taping (10 marks)

5 Explain main mistakes encountered in linear measurements (20 marks)