MACHAKOS UNIVERSITY
UNIVERSITY EXAMINATIONS 2022/2023
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION AND BACHELOR OF ARTS
REGULAR EXAM
AGE 300: AERIAL PHOTOGRAPHY AND FIELD COURSE

DATE…………………………………   TIME…………………………
Answer Question **One** and any other **two** Questions: At Least One question from **Sections B** and **C**

SECTION A: COMPULSORY

a). Using illustrations distinguish between :- nadir, Isocenter and principal point(3Mks)
b).Explain any three methods used in computing photo scales and identify their strengths and weaknesses   (6Mks)
b). Examine the importance of field research component in Geography.   (3Mks)
c). Explain two reasons which neccesiates a photo mission
(4Mks)
d)Differentiate between forward overlap and side overlap in aerial photography
(4Mks)
 e). Sketch a plan of an aerial photography with the following marginal information and assess their significance in aerial photographs

i). Fiducial marks	(2Mks)
ii).Bubble level	(2Mk)
iii). Clock	(2Mk)

 e). Assess the importance of sampling in geographical studies.   (4Mks)

SECTION B: AIR PHOTO-INTERPRETATION

2.) Using illustrations, explain how you can employ principles of air photo- interpretation to identify and classify the major land uses in Machakos Town
(20Mks)

3 a). Explain different types of errors that may occur during air photo flight mission
                                                                          (5Mks)
  b)Decribe the procedure in photo interpretation
                                                                          (9Mks)
  c). Discuss the significance of aerial photographs
                                                                          (6Mks)

SECTION C: FIELD-COURSE

4a). You are tasked to undertake a market survey of traders who peddle various items/goods/services such as clothes, vegetables, shoes, boda boda or taxi services etc for a period of two weeks.

    i).Explain four aspects which require to be answered when collecting data   (4Mks)

    ii). State two objectives for the study   (4Mks)

    iii). Formulate two null and two alternative hypotheses for the study   (6Mks)

b). Compare and contrast a questionnaire and participant observation as data collection tools   (6Mks)

5). Critically examine three probability and two non-probability sampling techniques   (20Mks)