MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2017/ 2018 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER

SCHOOL OF TOURISM & NATURAL RESOURCES MANAGEMENT
BACHEOR OF ARTS IN GEOGRAPHY

COURSE CODE: GEO 1208
COURSE TITLE: INTRODUCTION TO PRACTICAL
GEOGRAPHY AND FIELDWORK

DATE: 23RD APRIL 2018   **TIME: 0830 - 1030HRS**

<u>**INSTRUCTIONS TO CANDIDATES**</u>

- Answer **ALL** questions in Section A, and any **THREE** questions in Section B
- Use illustrations where appropriate. A simple calculator would be required during this examination. Borrowing of any materials from other candidates is strictly not allowed.

SECTION A (COMPULSORY)
Question One
(a) Examine one data gathering method used by geographers **(3 marks)**

(b) Outline the general drainage of the area covered by the map provided
(Kipkabus 104/1). **(2 marks)**
(c) Discuss how drainage may have influenced settlements in the area.
(2 marks)

(d) Explain the importance of scales in maps. **(2 marks)**

(e) The table below gives a summary of data that has been collected in
fieldwork survey on rainfall storms and Depth- Area-Duration (DAD)
analysis of the precipitation data for one province of a developing country.
Study the table and answer that questions that follow.

Limit of isohyetal area (mm)	Mean for isohyetal area (mm)	Area KM²	Cummulative area KM²	Volume of rainfall (mmKM²)	Volume of cummulative rainfall (mmKM²)	Average max rainfall (mm)
90 -100	95	0.02	0.02	1.90	1.9	95.0
80 -90	85	3.88	3.90	329.8	331.7	85.1
70- 80	75	21.1	25.0	1582.5	1914.2	76.6
60- 70	65	149.7	174.7	9727.9	11642.1	66.7
50- 60	55	1184.2	1358.8	65129.9	76772.0	56.5
40- 50	45	3175.5	4534.3	142896.2	219668.2	48.4
30- 40	35	3221.9	7756.2	112766.9	332435.0	42.9
20- 30	25	10676.7	18432.9	266917.5	599352.5	32.5
10- 20	15	9731.5	28164.4	145972.7	745325.1	26.5
0- 10	5	73.6	28238.0	367.9	745693.0	26.4

Source: World Applied Sciences Journal 6(12): 1705-1713, 2009

(i) Using the graph paper provided. Plot the DAD curve for the data.
(4 marks)

(ii) How could the investigator have collected the precipitation data?
(2 marks)

(iii) Describe the assumptions in DAD analysis **(4 marks)**

(iv) Explain the usefulness of DAD curves in geographical studies **(6 marks)**

[Total 25 marks]

SECTION B (ANSWER ONLY THREE QUESTIONS)

Q2 (a)Name two measures of dispersion   **(2 marks)**
    (b) Describe a real-life geographical situation for each of measures of
    dispersion you have named above where some knowledge of the same
    would be significantly useful.   **(13 marks)**

Q3 Describe the equipment and the hazards involved in field work studies
on any THREE of the following environmental features

(i) Distribution of animal species	**(5 marks)**
(ii)Meteorological conditions	**(5 marks)**
(iii)Soil fertility and productivity	**(5 marks)**
(iv)Freshwater resources	**(5 marks)**
(v)Radio-active contamination	**(5 marks)**
(vi)Distribution of natural vegetation	**(5 marks)**

Q4 A team of young environmentalists wish to launch a Mara Tours
Company that will be providing balloon safaris to local tourists at the
Maaasai Mara Game reserve.   Describe to them some six client-related
hazards that they should be aware of.   **[15 marks]**

Q5 Write short notes on the benefits of the following;

(i) Participatory field work	**(8 marks)**
(ii)Learner- practitioner fieldwork	**(7 marks)**

Q6 Discuss the merits and demerits of any two methods that one could use
to obtain the annual area precipitation estimations over a river basin.
                                                                         [**15 marks]**
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