

Bago University
Department of Geography
First Semester Examination, March 2019

Third Year (B.A)
Geography Specialization)

Geog. 3104
Descriptive Statistics in Geography
Time allowed (3) hours

Answer ALL questions. Illustrate your answer with sketch maps and diagrams wherever necessary.

1. Write short notes on the following:
 - (a) Interval data
 - (b) Sampling
 - (c) Universe
2. The given table shows the monthly rainfall of July at Minbu for the period from 1961 to 1990.

Rainfall	F
46-50	3
41-45	2
36-40	2
31-35	10
26-30	7
21-25	5
16-20	0
11-15	1

Find whether it is positive or negative skew.

3. Mean value of the data is 81 and standard deviation is 4.80. Find the index of variability, the relative variability and the coefficient of variation.

Months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature °F	74.2	77.9	84.2	88.8	87.5	82.6	81.4	81.2	81.1	82.0	78.7	71.1

4. Given below is a comparison of rainfall and runoff of a catchment area with ten years of records.

Rainfall (cm)	Runoff (cm)
46.4	31.9
63.0	46.8
48.8	34.2
60.1	47.5
50.6	35.2
57.5	40.5
55.5	41.3
57.0	43.5
60.8	44.8
48.3	38.5

By using Pearson's Product Moment correlation coefficient, assess the degree of correlation between these two items.

5. Annual Rainfall at Yamethin (1960-1971)

Years	Rainfall (mm)
1960	1063
1961	873
1962	1045
1963	807
1964	973
1965	610
1966	738
1967	718
1968	659
1969	1021
1970	923
1971	1014

- Find (a) Semi- average and draw a graph
(b) 5 years running means and draw a graph.
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