

2020

GEOGRAPHY – HONOURS – PRACTICAL
DR. KANAILAL BHATTACHARYYA COLLEGE

Eighth Paper

(Group – A)

(Module – 15)

(Statistical Techniques)

Full marks – 50; Time – 2 hours

The figures in the margin indicate full marks

The candidates are required to give their answers in their own words as far as possible

Attempt any two units

Unit I

(Basic concepts)

1. a) Define histogram and state the uses of histogram (5)

Weekly wage (Rs)	Number of workers
20-25	200
25-30	300
30-40	750
40-50	1750
50-60	1250

- b) Draw a histogram and locate the mode on it (5)
c) Calculate mean and median from the given data (5)
d) Define Ogive (5)
e) What percentage of workers earn weekly wage below Rs. 50? (5)

Unit II

(Dispersion and Time Series)

2. a) Table no 2 shows the rainfall (cm) for stations P and Q. Find out which station shows more consistent rainfall (10)

Rainfall for P (cm)	Rainfall for Q (cm)
100	95
200	105
125	100
150	125
175	115
80	85
65	110

- b) On the basis of data given below draw time series graph to show the annual variation in net cropped area in West Bengal. Show the trend by three year moving average (10)

Year	Net cropped Area (in '000 hectares)
2003-04	5500
2004-05	5200
2005-06	5295
2006-07	5300
2007-08	5256
2008-09	4990
2009-10	5230

- c) Define quartile deviation (5)

Unit III

(Scatter diagram and Correlation)

3. a) Define a scatter diagram and draw a scatter diagram based on the given data(2+10=12)
 b) Compute and draw the linear trend for regression of population with secondary education on adult literacy rate (10)
 c) Calculate the correlation coefficient after Karl Pearson and comment on the nature of the relationship (3)

Country	Adult Literacy Rate (% ages 15 and older)	Population with at least Secondary Education (% ages 25 and older)
A	95.3	63.0
B	90.0	64.3
C	94.5	73.5
D	95.4	64.8
E	62.8	38.7
F	54.9	31.2
G	60.3	28.4