2018

CBCS

3rd Semester

GEOGRAPHY

(Honours)

PAPER-C6P

(Practical)

Full Marks: 20

Time: 2 Hour

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Statistical Methods in Geography (Set-1)

Answer all questions

 Consider the following dataset as wardwise distribution of female literacy (%) in an urban area and answer the following:

91.4	88.1	89.2	78.3	77.8
85.2	85.2	87.1	79.1	90.2
90.3	77.1	89.7	80.4	89.0
78.7	94.1	90.5	90.8	83.2
92.1	95.3	92.3	93.1	77.1
95.2	80.0	95.0	88.2	91.2
82.9	78.0	77.7	82.2	86.5
81.5	83.9	91.3	86.7	83.6

- (a) Prepare a frequency distribution table consisting of at least five classes.
- (b) Construct a histogram based on the tabulated data.
- (c) Prepare a sample (n = 10) from the given dataset through applying systematic random sampling technique without replacement after arranging all the items in array and selecting every 4th item starting from the first one.
- (d) Calculate the sample size of the derived sample in terms of percentage with respect to total observation. Derive sample arithmetic mean and sample standard deviation. $\frac{1}{2}+1\frac{1}{2}+1\frac{1}{2}$
- 2. Using the data provided in the table below:
 - (a) Draw a Scatter Diagram.
 - (b) Compute and draw the regression line using least square method.
 - (c) Interpret the nature of the relationship between the variables. 2+3

Relative Relief and Vegetation Cover

Relative Relief (m)	71	90	122	52	200	250	32	93	110	105
Vegetation Cover (%)	31	37	52	25	95	96	2	46	55	52

3. Practical Note Book and Viva-Voce.

2+3

2018

CBCS

3rd Semester

GEOGRAPHY

(Honours)

PAPER-C6P

(Practical)

Full Marks: 20

Time:

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Statistical Methods in Geography (Set-2)

- 1. A temperature record (°C) of different sites in North Bengal on colder day of December, 2017 is given below:
 - 10.1, 11.3, 12.5, 13.2, 9.7, 7.6, 7.9, 8.9, 10.7, 11.8, 14.1, 13.3, 12.6, 12.1, 11.5, -0.9, 1.5, 1.5, 3.4, -2.7, -4.5,
 - 4.2, 5.9, 6.7, 7.7, 8.8, 9.9, 5.5, 10.1, 7.4, 8.3, 1.2, 3.9, 8.6, 5.8, 8.1, 13.1, 11.9, 10.5, 9.3, -4.1, 0.5, 7.9,
 - 8.3, 8.0, 2.4, 5.7, 9.2.
 - (a) Prepare a proper frequency distribution table.
 - (b) Draw the proper frequency diagram based on relative frequency.

- (c) Graphically represent median, lower quartile and upper decile.
- (d) Calculate the standard deviation of the temperature distribution at different sites. $3+2+2\frac{1}{2}+2\frac{1}{2}$
- 2. The following data shows the clay contents (%) and porosity (%) of some collected soil sample in a study area:

Sl. No. of Soil Sample	Clay Content (%)	Porosity (%)		
1.	19.9	32.4		
2.	29.3	40.5		
3.	39.2	47.8		
4.	54.7	57.8		
5.	35.9	46.5		
6.	44.3	49.3		
7.	24.4	36.5		
8.	38.1	44.0		
9.	52.5	54.5		
10.	43.1	45.6		
11.	61.5	59.9		
12.	52.2	57.1		

- (a) Draw the scatter diagram with regression line.
- (b) What will be the expected porosity when clay conents are 30%, 40% and 50% in the soil samples?

3+2

3. Laboratory Note Book and Viva-Voce.

2+3