

New
Part-III 3-Tier
2017

GEOGRAPHY

(Honours)

PAPER—VIII (Set-1)

(PRACTICAL)

Full Marks : 100

Time : 6 Hours

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.

Answer all questions

Unit—I

- 1. Prepare a frequency distribution table on the basis of the following data :**

- (a) Marks obtained by 25 students of Geography in class X :**

67, 81, 90, 88, 69, 76, 69, 83, 67, 64, 73, 80, 60, 63, 66, 72, 75, 82, 84, 81, 85, 76, 63, 67, 79.

- (b) Draw ogives on the basis of tabulated data.**
- (c) What are the measures of absolute and relative dispersion ?**

5+3+2

(Turn Over)

2. (a) The following are the bowling rate per over of the the player in 12 cricket matches.
6.5, 5.0, 5.2, 5.3, 5.5, 4.7, 4.6, 6.3, 3.0, 4.0 and 7.1.
Find the standard deviation.
- (b) Calculate the coefficient of variance of the bowling rate.
- (c) Estimate the Standard Error (SE) of the bowling rate.
- (d) Define stratified sampling. 4+2+2+2

Unit—2

3. (a) Find the association between the following data and comment on the result :

Age →	43	21	25	42	57	59	71
Glucose level →	90	78	79	80	87	89	99

4+1

- (b) Draw a regression line on the basis of age and glucose level data mentioned above. 3+2
- (c) The following table shows the distribution of family wealth of a country. Calculate the Gini coefficient and draw the Lorenz curve to show the wealth distribution pattern. 3+2

Income category	Share of total wealth (%)
Top 20%	78.7
4th 20%	14.0
3rd 20%	6.0
2nd 20%	1.0
Lowest 20%	0.3

4. Following table shows the data of different crops (area in hq.) in selected blocks of Hooghly District.

Calculate Crop-Combination Index from the data and interpret. 8+2

Sl.	Name of Block	Rice	Jute	Wheat	Potato
1.	Chinsura-Magra	5140.0	130	2.4	430
2.	Polba-Dadpur	31840.0	1260	10.00	3190
3.	Pandua	39760.0	30	140.0	4670
4.	Dhanekhali	27310.0	1290	150.0	6780
5.	Balagarh	22170.1	2940	2.0	1460

Unit—3

5. (a) From the given satellite image prepare a map and identify the spatial features. 5+2
- (b) Interpret the prepared map. 3
6. (a) What are the principles of GPS? 2
- (b) ABCDE are the points marked in the field. Take the reading from the ground through GPS. Represent the field data through graphical plotting. 6+2

Unit—4

7. (a) Field report. 15
- (b) Viva-voce on field report. 10

Unit—5

8. (a) Laboratory Note Book. 5
- (b) Viva-voce on Laboratory Note Book. 5
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Answer all questions

Unit—I

1. Percentages of agricultural workers are given below :

71.6, 73.1, 66.7, 60.6, 55.2, 75.5, 69.6, 48.4, 64.2, 64.0,
67.0, 66.9, 52.2, 66.5, 41.4, 72.0, 73.2, 72.7, 66.3, 62.9,
75.0, 56.9, 51.6, 59.5, 60.1, 78.0, 71.3, 65.3, 64.8, 50.2,
70.0, 52.0, 63.8, 65.0, 60.1, 69.2, 69.0, 64.5, 42.9, 61.3.

(a) Construct a frequency distribution table with six equal classes.

2

(Turn Over)

- (b) Draw a frequency polygon. 2
- (c) Calculate mean, median and mode. 2+2+2
- (d) Calculate the 6th Decile. 1
2. (a) Calculate the standard deviations and compare the variability in the amount of rainfall recorded at two stations.

Month	Station - I	Station - II
January	9.0	2.0
February	55.0	62.0
March	11.0	4.0
April	67.0	74.0
May	235.0	227.0
June	206.0	239.0
July	433.0	356.0
August	196.0	158.0
September	588.0	285.0
October	38.0	57.0
November	1.0	1.0
December	0.0	0.0

- (b) (i) Explain the term skewness. Differentiate between positive skewness and negative skewness.
- (ii) What are the disadvantages of arithmetic mean?

2+2

Unit—II

3. Following table shows the density of rural population and net sown area of some selected districts. :

District	Density of Rural Pop. (Persons/sq. km)	Net sown areas as percentage of total area
Bardhaman	699	66.7
Birbhum	613	69.04
Bankura	434	50.59
Purba Medinipur	1028	74.96
Paschim Medinipur	531	60.88
South-24 parganas	595	40.22
Nadia	975	76.64
Puruliya	369	54.22
Darjiling	354	43.94
Jalpaiguri	458	54.19

- (a) Draw a scatter diagram. Draw best fit line using least square method. 5+5
- (b) Find out product moment correlation co-efficient between density of rural population and net sown area. 6
- (c) Differentiate between correlation and regression. 2

4. The following table shows the number of persons injured due to road accident during the period 1996-2004.

Year	Persons Injured (in thousand)
1996	74.6
1997	77.0
1998	79.9
1999	82.0
2000	78.9
2001	80.9
2002	84.7
2003	86.0
2004	92.6

- (a) Draw a time series graph to show the annual variation. 3
- (b) Compute the trend by 4 year moving average and show it on the graph. 4

Unit—III

5. Prepare a landuse/land cover map from the given satellite image and interpret it. 8+2
6. What are the principles of GPS? 2
7. Run a GPS survey along a road by taking 10 different ground points. Plot the data with a suitable scale. 5+3

Unit—IV

8. Field Report and Viva-voce. 15+10

Unit—V

9. Laboratory Note Book and Viva-voce. 5+5

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Unit-I

Answer all questions.

1. The marks obtained by 50 students in Geography are given in the table below :

70, 55, 51, 57, 45, 60, 47, 63, 53, 33, 65, 39, 55, 64,
50, 25, 65, 75, 30, 20, 58, 36, 45, 42, 35, 40, 61, 53,
59, 49, 15, 52, 46, 42, 45, 39, 55, 65, 45, 54, 48, 64,
35, 26, 18.

- (a) Prepare a frequency distribution table.

(Turn Over)

- (b) Draw a Histogram on the basis of the data obtained from frequency distribution table.
- (c) Calculate range and quartile deviation.
- (d) Find out the percentage of students who obtained marks between mean and standard deviation.
- (e) Calculate the co-efficient of variation of the marks.

$$4+3+3+4+3$$

2. The expenditure of 1000 families is given below : 3

Expenditure (Rs)	40-59	60-79	80-99	100-119	120-139
Frequency	50	?	500	?	50

The mean for the distribution is 87.50. Calculate the missing frequencies.

Unit-II

3. The following data were obtained from second order drainage basins of Sutlej Catchment.

Basin Area (in sq. km)	Annual Sediment Load (in metric tonnes)
36	145
42	152
50	195
54	220
67	240
72	250

- (a) Draw a scatter diagram with the help of given data.
 (b) Fit a trend line with least square method.
 (c) Calculate Product Moment Correlation Coefficient.
 (d) Calculate the estimated load when the basin area is 84 sq. km. 3+5+2+2

4. The following table shows the distribution of total population as well as SC & ST population of different wards in Jhargram Municipality.

Word No.	Total Population	SC & ST Population	Word No.	Total Population	SC & ST Population
1	4345	1512	7	3127	2055
2	4667	1956	8	5712	3121
3	2312	912	9	3619	1892
4	2992	750	10	2788	820
5	3125	1250	11	2380	925
6	4258	1405	12	3420	1975

- (a) Draw a Lorenz Curve with the help of above data.
 (b) Find out Gini-co-efficient and interpret it. 3+3

5. Find out the pattern of settlement distribution with the help of nearest neighbour technique. Analyze the distribution of settlement with in the help of Nearest Neighbour Index (NNI) from the given topsheet (12 cm × 12 cm) and interpret the result. 3+4

Unit-III

6. (a) Prepare a land use / land cover map from the given standard F.C.C. and interpret it. 8+2

(b) (i) Mention the principles of Global Positioning System (GPS).

(ii) Using GPS instrument take the readings of 10 survey points given on the field & plot them on a suitable scale. 4+6

Unit-IV

7. Field Report & Viva-Voce. 15+10

Unit-V

8. Laboratory Note Book & Viva-voce. 5+5
