

2019

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-7P

(Statistical Methods in Geography)

Full Marks : 30

The figures in the margin indicate full marks.

BATCH – I

1. Table No. 1 presents the work participation rate during 2001 in the states and union territories of India.

Table : 1

Work participation rate in percent, 2001

49.2	48.6	51.8	44.0	46.0	43.6	44.2
52.6	44.5	42.5	46.5	37.5	45.8	38.3
42.6	38.8	41.8	38.8	35.2	42.7	36.9
39.6	37.5	37.0	36.2	33.7	37.8	32.8
41.9	25.3	32.3	32.5	35.8	42.1	36.8

- (a) Construct a frequency distribution with six equal classes.
- (b) Draw a frequency curve.
- (c) Calculate mode, median and mean.
- (d) How many states and union territories are characterised by work participation rates less than the median class?

$$2+3+(3+3+3)+1$$
2. The following table (2) shows Female Literacy Rate and Total Fertility Rate (TFR) of 13 selected districts of Orissa :
- (a) Draw a scatter diagram with the line of best fit by the method of least squares.
- (b) Interpret the relationship between the variables.

$$(3+5)+2$$

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Table 2

Sl No.	Districts	Female Literacy Rate	Total Fertility Rate (TFR)
1	Sambalpur	54.8	4.2
2	Sundargarh	54.3	3.9
3	Kendujhar	46.7	4.2
4	Mayurbhanj	38.3	4.1
5	Baleshwar	59.6	4.9
6	Cuttack	66.2	4.3
7	Dhenkanal	58.6	4.4
8	Phulbani	32.5	5.0
9	Balangir	39.3	4.3
10	Koraput	24.8	4.2

3. Viva voce, based on Laboratory Notebook.

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BATCH – II

1. Table No. 1 represents the maximum temperature (in °C) recorded at 45 IMD stations :

Table : 1

(Maximum temperature in °C)

39	39	39	28	35
33	36	42	39	22
39	24	36	22	35
38	29	33	35	28
40	33	39	41	37
32	18	37	18	
35	28	37	35	
27	34	38	38	
35	35	27	35	
35	37	23	37	

- (a) Construct a frequency distribution table with six equal classes.
 (b) Draw a histogram and interpret.
 (c) Compute mean and mode.
 (d) Calculate mean deviation and quartile deviation. 2+(2+1)+(2+2)+(3+3)
2. (a) Prepare a residual map showing the regression of % of working population on literacy rate for the following C.D. Blocks of Jalpaiguri district.

C.D. Blocks	% of Literacy	% of Workers
Mal	57.67	37.94
Matiali	58.93	42.71
Nagrakata	53.10	38.12
Madarihat	59.59	67.84
Kalchini	60.96	40.29
Kumar Gram	63.79	39.63
Alipurduar I	67.63	41.13
Alipurduar II	67.06	34.53

- (b) Interpret the map.

3. Viva voce based on Laboratory Notebook.

8+2

5

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BATCH - III

1. (a) Prepare a frequency distribution table with six classes using the slope values (in degrees) by choosing systematic sampling (columnwise every 3rd slope values).

Table : 1

2°	6°	21°	30°	36°	40°
18°	25°	8°	54°	43°	11°
62°	9°	46°	18°	53°	15°
10°	37°	13°	32°	14°	31°
37°	4°	48°	23°	55°	48°
29°	20°	26°	17°	50°	5°
42°	60°	7°	49°	7°	16°
44°	12°	28°	15°	47°	38°
38°	33°	6°	50°	57°	61°
51°	40°	22°	27°	9°	
41°	35°	58°	5°	39°	
4°	52°	14°	59°	17°	
45°	47°	34°	8°	39°	
19°	29°	49°	24°	28°	
16°	56°	36°	27°	3°	

- (b) Calculate Median and Mean.
(c) Draw a histogram and give your comments.
(d) Calculate the quartile deviation.

(2+2)+(2+2)+(3+1)+3

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2. Using data provided in Table No. 2

- (a) Draw a scatter diagram and the best fit line.
- (b) Interpret the nature of the relationship between the variables.
- (c) Calculate the expected total fertility rate for India at the given female adult literacy rate.

'3+3)+2+2

Table : 2

Country	Female Adult Literacy Rate (%)	Total Fertility rate (Births Per Woman)
India	47.8	3.1
Pakistan	35.4	4.0
Bangladesh	40.8	3.2
Nepal	34.9	3.7
Indonesia	86.8	2.4
Sri Lanka	89.1	2.0
Malaysia	85.4	2.9
Japan	100.0	1.3
China	86.5	1.7
Thailand	90.5	1.8

3. Viva voce based on Laboratory Notebook.