2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-8P

(Economic Geography Lab.)

Full Marks : 30

The figures in the margin indicate full marks.

1. **Table no. 1** shows steel production in India since January, 2020.

   (a) Draw a time series graph.

   (b) Compute and draw the trend by three years moving average.

   (c) Interpret.   2+5+3

Table no. 1

Month and year	Steel Production in 000 tonnes
January, 2020	9560
February, 2020	8650
March, 2020	3137
April, 2020	5767
May, 2020	6917
June, 2020	7150
July, 2020	8478
August, 2020	8520
September, 2020	9058
October, 2020	9245
November, 2020	9796
December, 2020	10000

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2. (a) Calculate the detour index values for the roads connecting Birsinha to each of the other settlements based on data given in **Table 2.** Rank the settlements according to accessibility.   8+2

Table - 2

Settlement No.	Name of Settlement	Actual distance in cm.	Straight line distance in cm.
A	Dhansimal	10	9.2
B	Balbirbandh	12	8.7
C	Meterdanga	12	7.5
D	Padua	10	8.8
E	Mayurdanga	11	9.8
F	Bankishol	9	7.7
G	Bhairabpur	8	6.8
H	Seorabani	8	7.5
I	Kamarbera	10	8.0
J	Jamsola	10	8.2

(b) Draw proportional divided circles to show the distribution of working population of the following states.   5

Table - 3

Sl. No.	State Name	Total Working Population	Main Working Population	Marginal Working Population
1.	West Bengal	34756355	25686630	9069725
2.	Gujarat	24767747	20365374	4402373

3. Evaluation of Laboratory Notebook.   5

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2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-9P

(Regional Planning and Development)

Full Marks : 30

The figures in the margin indicate full marks.

1. (a) Measure the inequality in literate population of the following six districts of West Bengal (2011) by Location Quotient.

   (b) Interpret it. 8+2

Sl. No.	Name of the Districts	Total Population	Literates
1	Bardhaman	7723663	5350197
2	Darjeeling	1842034	1328218
3	Purulia	2927965	1656940
4	Howrah	4841638	3642617
5	Hugli	5520389	4140487
6	Kolkata	4486679	3648210

2. (a) Measure the disparity in Work Participation Rate (WPR) of urban male and female population of the following districts of West Bengal by Sopher's Index.

   (b) Interpret it. 8+2

Sl. No.	Name of the Districts	Main urban male WPR (in %)	Main urban female WPR (in %)
1	Cooch Behar	50.6	9.6
2	Maldah	48.8	8.8
3	Birbhum	48.5	9.1
4	Bardhaman	43.2	6.0
5	Hugli	51.0	7.8
6	North 24-Parganas	51.2	8.3
7	Purulia	42.5	0.9
8	Kolkata	56.4	10.8

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3. Delineate the Functional region of the Bengaluru city by Breaking Point method based on the following
   data : 5

Sl. No.	Name of the Urban Centres	Population	Distance in Kms
1	Bengaluru	8495492	–
2	Magadi	27605	58
3	Ramanagara	95167	49
4	Kanakapura	54014	61
5	Hospet	56980	27

4. Evaluation of Laboratory Notebook. 5

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2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-10P

(Soil and Biogeography)

Full Marks : 30

The figures in the margin indicate full marks.

1. Table 1 shows the population of a specific fish type (sardine) for 12 years in the northwestern coast of India. Draw a time series graph and analyse the trend by four years moving averages. Interpret the trend. 3+8+4
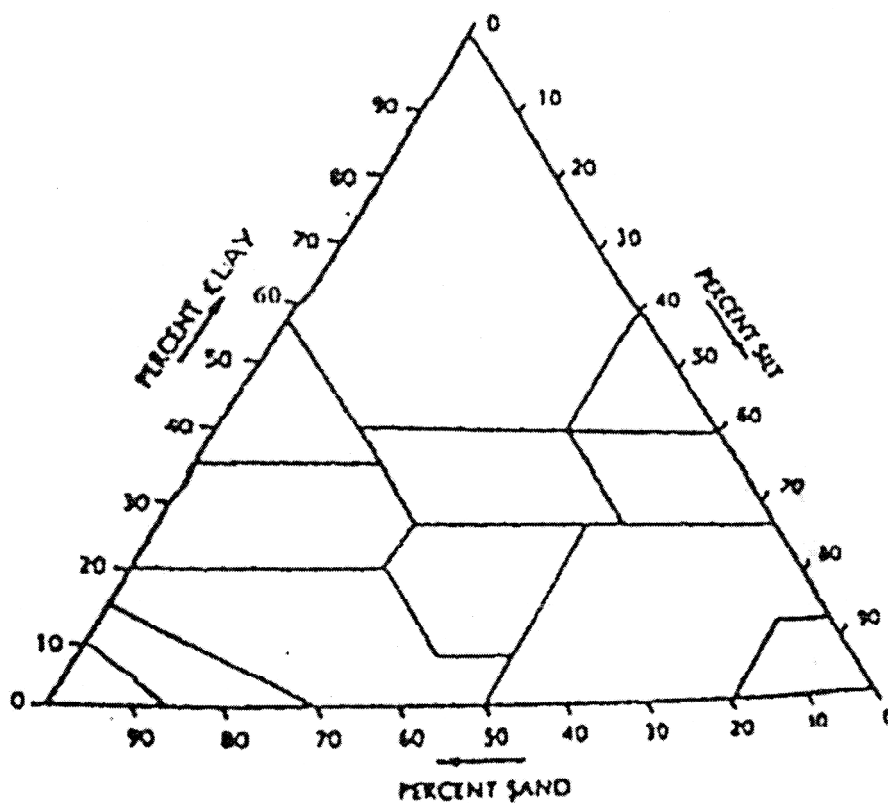
Table : 1

Years	Population (in thousands)
1970	1262
1971	1817
1972	1133
1973	2624
1974	276
1975	929
1976	975
1977	1069
1978	1338
1979	1819
1980	1012
1981	1749

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2. On the basis of following data prepare a ternary diagram and interpret the soil texture. The given ternary diagram may be used as a guideline (*Figure - 1*)   7+3

Sl.No.	Borehole	Depth[ft]	Sand[%]	Silt[%]	Clay[%]
1	A	15	22.0	40.0	38.0
2	B	12	95.0	2.0	3.0
3	C	20	45.0	42.0	13.0
4	D	25	25.0	65.0	10.0
5	E	30	13.0	84.0	3.0

(Figure - 1)

3. Evaluation of Laboratory notebook.   5