2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-5P

(Climatology Lab)

Full Marks : 30

The figures in the margin indicate full marks.

1. Interpret the given map of India (Map no. 1) under the following heads, using suitable sketches.

   (a) Trend of isobars and pressure conditions

   (b) Cloud condition. 5+5

2. (a) Prepare a Hythergraph on the basis of the following data (Table 1) and interpret it. 8+2

(Table 1)

MONTHS	TEMPERATURE (°C)	RAINFALL (mm)
January	18.5	36
February	22.5	22
March	27.3	52
April	28.8	101
May	30.5	96
June	31.7	89
July	28.5	458
August	28.9	427
September	27.5	366
October	27.1	72
November	25.5	8
December	20.8	29

   (b) Mentioning the name of the instrument, describe the process of estimation of day to day relative humidity. 5
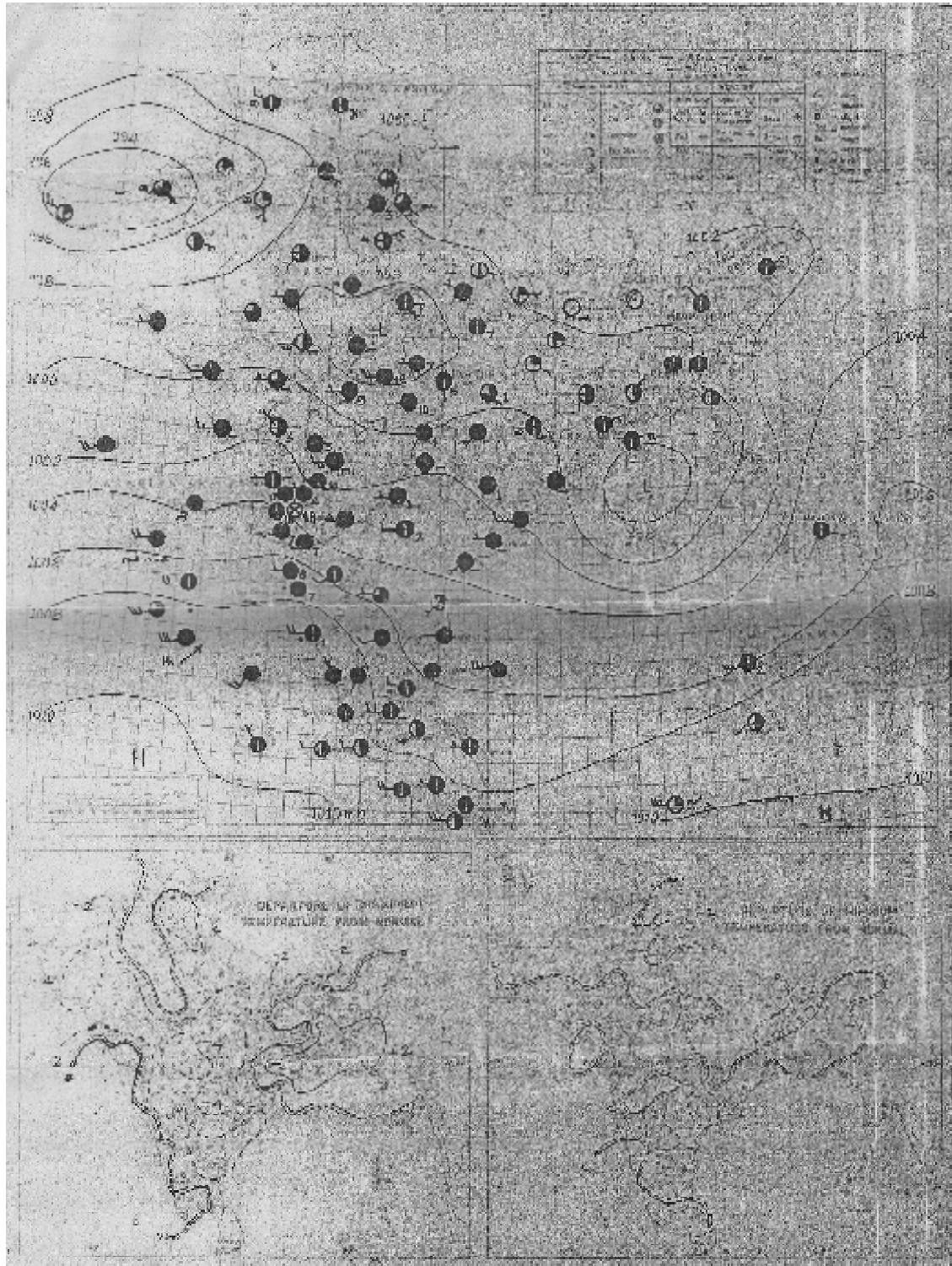
3. Evaluation of Laboratory Notebook. 5

Please Turn Over

Map no. 1

INDIAN DAILY WEATHER REPORT

WEATHER MAP AT 0830 HRS. I.S.T. (0300 HRS. G.M.T.)

Wednesday 31 July 1985 (9 Sravana 1907 Saka)

2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-6P

(Hydrology and Oceanography)

Full Marks : 30

The figures in the margin indicate full marks.

1. Compute and draw a Unit Hydrograph on the basis of the given data and interpret it.   13+2

Table - 1

Area of Catchment	Date	Hour	Rainfall in mm	Stream Discharge in cumec (TRO)	BFO in cumec
30 km²	9.9.09	18	—	4	4
		24	2.4	5	4
	10.9.09	06	20.6	14	4
		12	22.6	18	4
		18	19.8	22	4
		24	02.8	16	4
	11.12.09	06	1	10	4
		12	—	8	4
		18	—	7	4
		24	—	5	4

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2. Graphically represent the climate water budget of station 'A' based on the following data. Interpret the diagram. 8+2

Table - 2

Station-A

MONTH	Precipitation (mm)	Potential Evapotranspiration (mm)
January	31	49
February	24	63
March	26	121
April	14	168
May	13	196
June	78	149
July	172	136
August	163	96
September	125	82
October	56	112
November	16	59
December	10	41

3. Evaluation of Laboratory Notebook. 5

2021

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-7P

(Statistical Methods in Geography)

Full Marks : 30

The figures in the margin indicate full marks.

1. (a) Prepare a frequency distribution table with five equal classes using the data (Table-1) showing rainfall values in mm by choosing systematic sampling (4th value; row wise).

Table - 1

Rainfall in mm

11.2	23.1	16.5	25.6	56.7	69.5	56.1	32.1	18.9	26.5
23.2	42.8	8.1	14.6	62.3	55.7	69.7	96.1	58.7	22.5
35.8	7.5	11.9	33.8	35.6	69.5	22.6	48.9	95.5	61.9
43.8	66.8	76.5	156.4	19.5	72.1	28.9	78.2	31.5	81.5
51.2	19.5	56.8	72.4	56.4	76.1	45.7	73.6	55.4	96.3
66.7	89.5	44.1	126.4	86.1	93.5	89.5	26.5	62.2	111.0
87.1	16.8	23.9	103.5	9.6	25.9	115.5	118.7	68.4	76.5
69.1	32.5	15.9	122.8	36.2	47.5	141.2	8.7	69.5	67.8
78.1	22.5	26.7	116.8	51.4	63.5	26.3	45.8	26.4	111.5
12.3	22.8	66.1	132.5	26.4	55.8	59.8	61.9	51.2	43.1

(b) Calculate median and mode.

(c) Draw a histogram and comment on its nature.

(d) Calculate quartile deviation. 4+(2+2)+(3+1)+3

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2. Using the given data in Table-2

   (a) Draw a scatter diagram and interpret it.

   (b) Calculate the expected literacy rate for the given percentage of urban population.   (5+2)+3

Table - 2

SL. NO.	DISTRICTS	URBAN POPULATION(%)	LITERACY RATE (%)
1.	Dakshin Dinajpur	14.13	73.56
2.	Uttar Dinajpur	12.07	60.13
3.	South 24 Paraganas	25.61	78.57
4.	North 24 Paraganas	57.59	84.95
5.	Howrah	63.30	83.85
6.	Hugli	82.55	82.55
7.	Purba Medinipur	87.66	87.66
8.	Paschim Medinipur	79.04	79.04
9.	Nadia	75.58	75.58
10.	Murshidabad	67.53	67.53

3. Evaluation of Laboratory Notebook.   5