

UG/5th Sem (H)/Pr/23/(CBCS)

2023

GEOGRAPHY (Honours)

Paper Code : GEOH DC-12B

(Hydrology and Oceanography)

(Practical)

Set - I

Full Marks : 15

Time : One Hour Thirty Minutes

The figures in the margin indicate full marks.

1. Plot an Annual Hydrograph for river Brahmaputra at Pandu, Assam (1977), using the data provided in the following table : 5

Sl. No.	Month	Discharge (m^3 / s)
1	January	5470
2	February	7349
3	March	13634
4	April	20513
5	May	31005
6	June	37476
7	July	44583
8	August	35111
9	September	24935
10	October	12381
11	November	10470
12	December	8720

P.T.O.

(2)

2. Draw a T-S Diagram using the following data : 7

Sl. No.	Depth (m)	Temperature (°C)	Salinity (%)
1	10	29.131	35.118
2	30.3	28.281	35.211
3	50	23.755	35.229
4	90.7	17.813	35.221
5	149.7	14.817	35.235
6	180.2	13.45	35.111
7	210	12.463	35.039
8	400.1	10.061	34.862
9	550.5	8.487	34.782
10	900.2	6.932	34.809
11	1050.4	5.991	34.798
12	1200.1	5.301	34.799
13	1400.5	4.312	34.767
14	1700.1	3.305	34.752
15	1962.9	2.55	34.749

3. Laboratory notebook & Viva-voce. $1\frac{1}{2}+1\frac{1}{2}=3$

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Set - II

Full Marks : 15

Time : One Hour Thirty Minutes

The figures in the margin indicate full marks.

1. Plot an Annual Hydrograph for river Damodar at Rhondia, West Bengal (1978), using the data provided in the following table and briefly interpret the diagram.

6+1=7

Sl.No.	Month	Discharge (m ³ / s)
1	January	8.00
2	February	7.00
3	March	5.00
4	April	51.00
5	May	247.00
6	June	409
7	July	367
8	August	1839
9	September	1183
10	October	136
11	November	43
12	December	7.0

P.T.O.

(2)

2. Draw a T-S Diagram using the following data : 5

Sl. No.	Depth (m)	Temperature (°C)	Salinity (%)
1	25.4	27.345	35.287
2	50.4	24.33	35.247
3	100.3	17.059	35.081
4	200.5	13.02	35.058
5	399.4	10.538	34.912
6	850.4	6.91	34.808
7	1200.1	4.992	34.791
8	1349.9	4.469	34.782
9	1700.4	3.282	34.761
10	2007.5	2.661	34.758

3. Laboratory notebook and Viva-voce. $1\frac{1}{2}+1\frac{1}{2}=3$
