

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

2023

**GEOGRAPHY (Honours)**

**Paper Code : GEOH DC-12B**

**(Hydrology and Oceanography)**

**(Practical)**

**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.

$1\frac{1}{2}+1\frac{1}{2}=3$

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