

2023

GEOGRAPHY (Honours)

Paper Code : GEOH DSE-2B

(Practical)

Set - I

Full Marks : 15

Time : One Hour Thirty Minutes

The figures in the margin indicate full marks.

Answer *all* the questions.

DSE-2A : Fluvial Geomorphology

1. (a) The total number of streams in each stream order for the Dev Gad and Gagas river basins is given in the following table. Calculate the bifurcation ratio based on that. 2

Name of the River Basin	Stream Order				
	I	II	III	IV	V
Dev Gad	307	74	11	3	1
Gagas	648	155	31	9	1

- (b) Using the given map no. 1, calculate the sinuosity of the Damodar River using Schumm's (1963)/ Leopold, Wolman and Miller's (1964) formula. 3

P.T.O.

(2)

2. From the given map (map no. 2) divide the marked area into 25 equal-sized grids, then calculate stream frequency and prepare a stream frequency map. $2+5=7$

Grid Direction

Grid No.	A	B	C	D	E
1					
2					
3					
4					
5					

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

(Social & Cultural geography)

1. Calculate Decadal Growth rate of the data given in the following and represent it with a suitable cartographic technique on the map provided of Malda district and interpret the same.

6+1=7

Table-1 : Block-wise population of Malda District of 1991 and 2001.

Sl. No.	Name of the Blocks	Population, 1991	Population, 2001
1	Harischandrapur-1	129829	162406
2	Harischandrapur-2	157077	198039
3	Chanchal-1	143288	172404
4	Chanchal-2	132697	165192
5	Ratua-1	173655	217356
6	Ratua-2	125762	160904
7	Gazole	233139	294715
8	Bamongola	107579	127252
9	Habibpur	168397	187650
10	OldMalda	132999	131255
11	Englishbazar	180434	226236
12	Manikchak	177572	214127
13	Kaliachalk-1	243787	310935
14	Kaliachalk-2	163871	211406
15	Kaliachalk-3	214721	284376

(4)

2. Calculate HPI of selected Developed countries and conclude on the result. 4+1=5

Sl. No.	Countries	Probability at birth of not surviving to age 60 years	People lacking functional literacy Skill (%)	Long term unemployment (%)	Population below 50% of median income (%)
1	Norway	7.90	7.90	0.50	6.40
2	Denmark	9.40	10.40	1.80	5.40
3	Belgium	9.30	18.40	4.60	8.00
4	USA	11.60	20.00	0.04	17.00

3. Laboratory notebook and 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)

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(Practical)

Set - II

Full Marks : 15

Time : One Hour Thirty Minutes

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Answer *all* the questions.

(Fluvial Geomorphology)

1. Measure the stream ordering (after Strahler) of the Banaili river basin from the given map. Calculate and interpret the bifurcation ratio of the same river basin.

3+3+1=7

2. The total length of stream measured on each grid covering 1 km² area on the SOI topomap (63 L/14) has been given in the following table. On that basis, calculate drainage density and create a drainage density map.

2+3=5

Grid No.	Total Length of the stream (cm)	Grid No.	Total Length of the stream (cm)	Grid No.	Total Length of the stream (cm)
A1	8	B1	0.5	C1	6
A2	5.5	B2	7.5	C2	6
A3	4.5	B3	4.5	C3	2.5
A4	9	B4	13.5	C4	3.5
A5	2.5	B5	6	C5	1

Grid No.	Total Length of the stream (cm)	Grid No.	Total Length of the stream (cm)
D1	7	E1	4.5
D2	13	E2	6
D3	8	E3	7.5
D4	3	E4	4.5
D5	5.5	E5	9.5

Grid Direction

Grid No.	A	B	C	D	E
1					
2					
3					
4					
5					

3. Laboratory notebook and Viva-voce.

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

(Social & Cultural Geography)

1. Represent the following data with a suitable Cartographic Technique based on the data given below (Table-1) and interpret it.

Table-1 : Religious structure of some states of India, 2011

Sl. No.	Name of the States	Hindu (%)	Muslim (%)	Christians (%)	Sikhs (%)	Other Religions (%)
1	Punjab	38.49	1.93	1.26	57.69	0.63
2	Uttar Pradesh	79.73	19.26	0.18	0.32	0.19
3	Rajasthan	88.49	9.07	0.14	1.27	1.03
4	Meghalaya	11.53	4.40	74.59	0.10	9.38
5	West Bengal	70.54	27.01	0.72	0.07	1.66
6	Karnataka	84.00	12.92	1.87	0.05	1.16

Source : Census of India, 2011

6+1=7

2. Calculate HPI for the less developed countries given in the following (Table : 2) and comment on it. 4+1=5

P.T.O.

Sl. No.	Countries	Probability at birth of not surviving to the age 40	Adult Literacy Rate	% of people without access to safe water	% of people without access to health service	% of made nourshed children under 5 years of age
1	Ghana	19.25	56	57.15	31.66	23.11
2	Chand	31.25	49	41.95	45.22	25.14
3	Sri Lanka	16.57	61	67.21	32.20	12.30
4	Afghanisthan	25.23	57	48.65	44.55	18.40

3. Laboratory notebook and Viva-voce.

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