

2021

**GEOGRAPHY — HONOURS — PRACTICAL****Paper : CC-1P****(Geotectonics and Geomorphology)****Full Marks : 30***The figures in the margin indicate full marks.*

1. (a) Calculate the strike direction and amount in reduced bearing if dip amount is  $22^\circ$  from NNE to SSW.  
 (b) State any two distinctive characteristics of feldspar, quartz and dolerite. (1+1+2)+(2×3)
2. (a) Calculate relative relief and draw isopleth lines showing at least 3 classes with the help of relative relief data (10 × 12 cm grid area on 1:50,000 map) 2+8

Sl. No.	Grid Id	Maximum elevation (m)	Minimum elevation (m)
1	A1	420	400
2	A2	460	400
3	A3	440	380
4	A4	460	420
5	A5	400	380
6	A6	460	420
7	B1	400	380
8	B2	400	380
9	B3	460	420
10	B4	400	380
11	B5	500	420
12	B6	400	380
13	C1	380	360
14	C2	520	440
15	C3	400	360
16	C4	380	360
17	C5	560	420
18	C6	400	360
19	D1	400	380
20	D2	365	355

contd.

**Please Turn Over**

Sl. No.	Grid Id	Maximum elevation (m)	Minimum elevation (m)
21	D3	540	500
22	D4	560	420
23	D5	480	400
24	D6	606	500
25	E1	580	420
26	E2	565	420
27	E3	520	360
28	E4	420	360
29	E5	460	400
30	E6	560	480

- (b) What is meant by superimposed profile?
- (c) State the formula of average slope after C. K. Wentworth.
- (d) Find out the Bifurcation Ratio of Baruna River from the following data.

1+1+3

Stream Order	Number of Streams
1st	286
2nd	122
3rd	24
4th	7
5th	1

3. Evaluation of Laboratory Notebook.

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**Q 2a.** Diagram for Question 2(a)

	A	B	C	D	E	
1	.	.	.	.	.	1
2	.	.	.	.	.	2
3	.	.	.	.	.	3
4	.	.	.	.	.	4
5	.	.	.	.	.	5
6	.	.	.	.	.	6
	A	B	C	D	E	

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**GEOGRAPHY — HONOURS — PRACTICAL****Paper : CC-2P****(Cartographic Techniques)****Full Marks : 30***The figures in the margin indicate full marks.*

1. (a) Draw a diagonal scale to show 6.62 km when R.F. is 1 : 1,50,000.
- (b) Draw graticules on Polar Zenithal Stereographic Projection at an interval of 15° on a scale 1 : 90,000,000 for the extension of 15° S – 90° S and 150° W – 120° E. 5+10
2. Draw proportional squares to show the number of female-headed households in North Bengal. Interpret the diagram. (map not required) 8+2

Sl. no.	Districts	No. of female-headed households (2011)
1.	Darjeeling	59,132
2.	Jalpaiguri	108,811
3.	Koch Bihar	73,281
4.	Uttar Dinajpur	58,768

3. Evaluation of Laboratory Notebook.

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