2022

GEOGRAPHY (Honours)

Paper Code: GEOH DC - 2B

(Practical)

Set - II

This alternative question set to be used in case of inclement weather condition only

The following bearings were observed in case of a close traverse survey by prismatic compass taken in anticlockwise direction. Correct for local attraction.

Line	Forward Bearing	Backward Bearing		
AB	S 40°30′ W	N 41°00′ E		
BC	S 81°00′ W	N 80°30′ E S 20°30′ W		
CD	N 20°00′ E			
DA	S 80°00′ E	N 80°00′ W		

2022

GEOGRAPHY (Honours)

Paper Code: GEOH DC - 2B

(Practical)

Set - III

This alternative question set to be used in case of inclement weather condition only

(A) The following is a page of a level field book. Fill
in the missing readings and calculate the reduced
levels of all the points and also carry out the
necessary check.

Slno	BS	IS	FS	Rise	Fall	RL
1	3.250		T.			
2	1.880				0.600	
3		2.250				
4			1.920			
5		2.540			0.015	
6				1.000	0.015	
7	1.175		2.115			
8		1.625				225.305
9			1.895		0.05	14
10			1.255		0.270	2
sum	11.450				0.750	H.

- (B) Find the included angle between lines AB and AC, if their reduced bearings are:
 1+1=2
 - (i) AB N 10°30' E AC S 50° 30' E
 - (ii) AB S 75°45' W AC N 75° 30' E

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(Practical)

Set - III

Full Marks: 15

Time: One Hour Thirty Minutes

The figures in the margin indicate full marks.

Attempt all the questions.

- Draw a Vernier scale to show 1.97 inch. The given 9 small main scale divisions are equal to 10 vernier scale division and vernier constant is 0.01 inch.
- For a given area, perform a closed traverse survey using a prismatic compass at three stations A, B and C in a clockwise direction assuming that all stations are free from any kind of local attraction.
 - (a) Prepare a field book and enter the reading taken in the field [Forward bearing only]
 - (b) Complete the table with the necessary calculations. 1+3+3=7

Or

Make a dumpy level survey along a line (8 m long). Take staff readings at 2m interval. The Bench Mark of last point in 32m. Calculate reduce level for all stations and plot it in a suitable scale.

5+2=7

3. Laboratory note book and viva-voce. 1.5+1.5=3

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(Practical)

Set - I

Full Marks: 15

Time: One Hour Thirty Minutes

The figures in the margin indicate full marks.

Attempt all the questions.

- Draw the graticules of Polar Zenithal Stereographic Projection at an interval of 10° extending from 50°S to 80°S and 140°W to 140°E. Consider the radius of the reduced earth as 10 cm. Determine the scale of the projection.
- Make a dumpy level survey along a line (8m long). Take staff readings at 2m interval. The Bench Mark for the last station is 44m. Calculate reduce level for all stations.

5

Or

Measure the distance between the instrument (A) and the given object (B) using the levelling staff and transit theodolite, applying stadia method.

3. Laboratory note book and viva-voce.

1.5+1.5=3