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UG/2nd Sem/Geo/H/19 (Pr.)

2019

B.Sc.

2nd Semester Examination  
**GEOGRAPHY (Honours)**

Paper - C4P

Set - I

[Practical]

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Cartography Lab**

Answer *all* questions.

1. Make a closed traverse survey by Prismatic Compass around the three stations A, B and C given in the field.
  - (i) Prepare a field book and enter the readings neatly.

[ Turn Over ]

( 2 )

- (ii) Make the necessary corrections and draw the traverse with necessary adjustment by parallel meridian method.
- (iii) Calculate the included angles of each station with proper checking for angular measurement of the traverse.  $6+6+3=15$

*Or,*

Conduct a dumpy level survey along a line AK which is 30 metre long taking staff readings at every 3m interval. Shift the instrument at 18 m where the B. M. is 20.00 m. Other stations in between A & K are B, C, D, E, F, G, H, I and J.

- (i) Prepare a field book and enter the readings taken from the field.
- (ii) Calculate the reduced levels and show arithmetic check.
- (iii) Draw a profile on a suitable scale on the basis of derived reduced levels.
- (iv) Calculate the gradient between station A & K.  $5+5+3+2=15$

*Or,*

2. (a) Draw a suitable diagram to show the following dataset and interpret the prepared diagram.

( 3 )

Sl. No.	Name of C. D. Block	No. of Households.
1.	Bishnupur	34,022
2.	Ranibandh	19, 242
3.	Barjora	30, 420
4.	Saltora	20, 250
5.	Onda	33, 925
		4+1

(b) Draw a suitable diagram to show the following data set and interpret the prepared diagram.

8+2

Urban Centres	Population under different casts			
	General	S.C.	ST	OBC
1	44, 715	22,370	1,785	5,710
2	64, 570	49,070	11,315	8,720
3	75,320	42,350	3,118	7,717
4	27,139	15,000	19,291	1,520
5	42,218	36,320	14,200	2,317

3. Practical Note Book and Viva-Voce. 2+3

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Set - II

[Practical]

Full Marks : 20

Time : 3 Hours

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in their own words as far as practicable.*

1. (a) Conduct a dumpy level survey along the line PQ of 25m (to be demarcated in the field) at an interval of 5m taking one changing point at 15m length where the BM is 30m.
  - (i) Prepare a field book and enter the reading neatly.
  - (ii) Calculate the R. L. with arithmetic check.

[ Turn Over ]

( 2 )

- (iii) Draw a profile to show the form of the land surface on suitable scale. 5+2+3

*Or,*

- (b) Prepare a close traverse survey by Prismatic compass around the stations M, N and O.

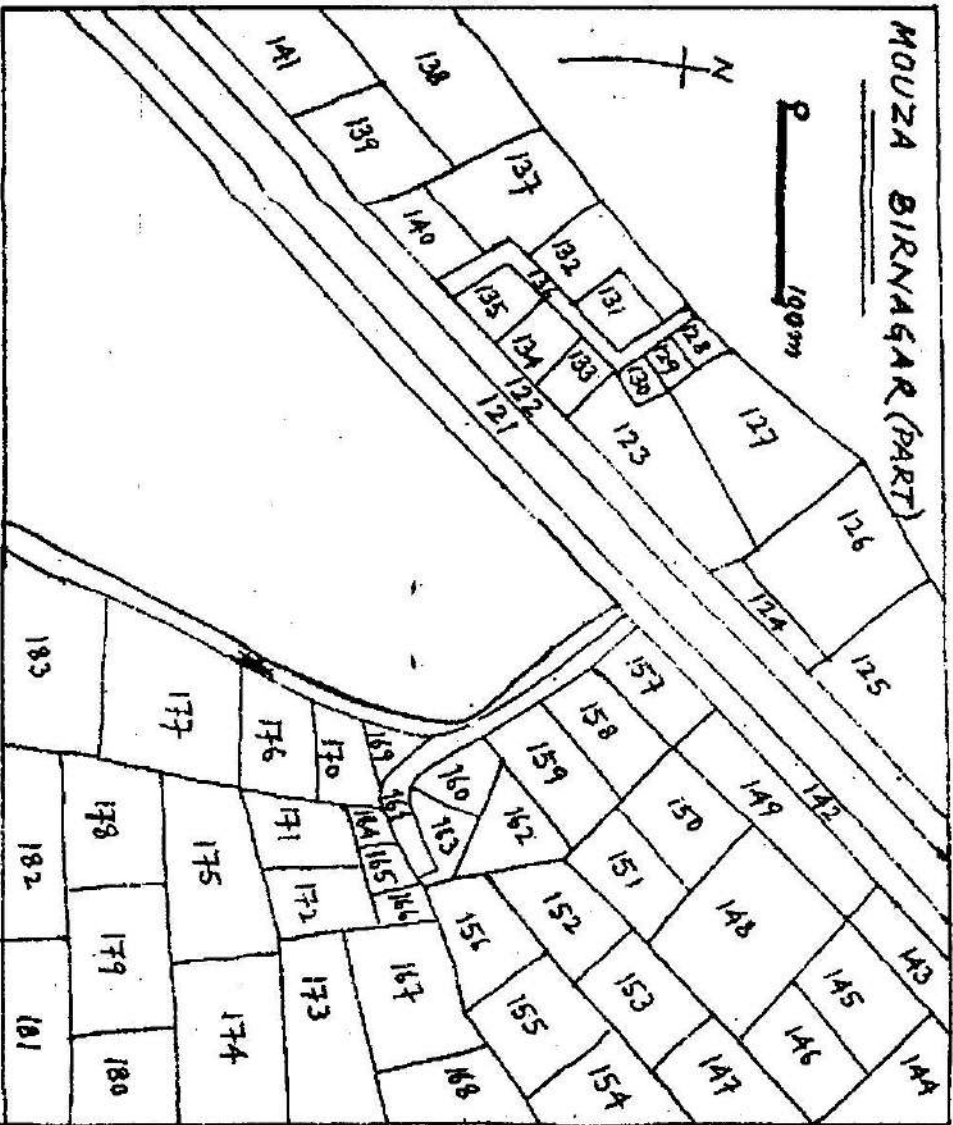
- (i) Prepare the proper field book and enter the readings neatly and make the necessary corrections.
- (ii) Draw the traverse with necessary adjustment.
- (iii) Calculate the included angles of each station with proper checking for angular measurement of the traverse. 5+2+3

(to be selected by lottery)

2. Prepare a chorochromatic map. Using plotwise data with conventional colours for the given mouza (Map No. 1) 4+1

Plot No.	Land use Type
121	Canal
122	Road
123	Orchard

Map No. - 1



124	Orchard
125	Pasture
126	Cultivated Land
127	Parmanent Fallow
128	Homestead
129	Homestead
130	Homestead
131	Pond
132	Cultivated Land
133	Homestead
134	School (Primary)
135	Homestead
136	Path
137	Cultivated Land
138	Cultivated Land
139	Orchard
140	Cultivable waste
141	Pasture
142	Road
143	Bamboo groves
144	Bamboo groves
145	Current Fallow
146	Current Fallow

3. Laboratory note book and Viva-Voce.

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**GEOGRAPHY (Honours)**

Paper - C4P

Set - III

[Practical]

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers*

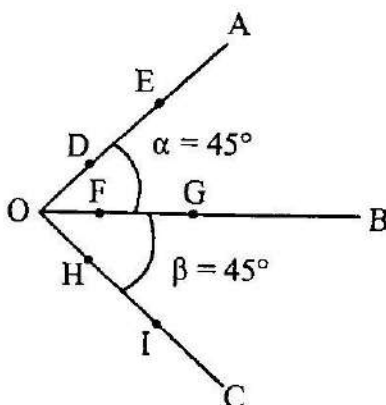
*in their own words as far as practicable.*

1. Prepare a custom plan in the field with three radial lines as shown in the following graphics. The radial lines should be 15m in length and each line to be intervalled by 5m. The angle between any pair of line should be  $45^\circ$ .

[ Turn Over ]



( 2 )



After preparing the layout, do the following —

- (i) Neatly draw the layout sketch with suitable scale.
- (ii) Take the readings with the help of dumpy level and make table at reduced level. BM is 20m.
- (iii) Draw atleast 4 contours with suitable interval.

5+5+3+2

*Or,*

- (a) Draw a suitable diagram to show the following data set on the population. Compute the section of population that each urban centres caters and interpret the pattern.

( 3 )

Urban Centres	Population
A	35350
B	18280
C	104970
D	150562
E	18040
F	20700

4+3

- (b) Draw appropriate diagram to show the following data and interpret the graphics. 5+3

Urban Centres	Total workers	Primary workers	Secondary workers	Tertiary workers
1	6255	732	1362	4161
2	4650	1480	919	2251
3	25680	1392	7174	17114
4	5035	912	1277	2846
5	25420	640	1811	22969

2. Laboratory note book and Viva-Voce. 3+2

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**GEOGRAPHY (Honours)**

**Paper - C4P**

**Set - IV**

**[Practical]**

Full Marks : 20

Time : 3 Hours

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in their own words as far as practicable.*

1. Conduct a levelling survey by Dumpy level along a 30m long line AB. Take the staff reading at each 5m interval. Shift the instrument at 15m where BM is 20m, and do the following tasks —
  - (i) Prepare a field book and enter the readings from the field.
  - (ii) Calculate the reduced levels and show arithmetic check.

*[ Turn Over ]*

( 2 )

- (iii) Draw a profile on a suitable scale on the basis at derived RL.
- (iv) Calculate slope at each interval and interpret the pattern. 5+3+2+5

*Or,*

Make a closed traverse survey by prismatic compass around from stations ABCD given in the field.

- (i) Prepare a proper field book and enter the readings taken from the field survey.
- (ii) Make necessary corrections and plot the traverse.
- (iii) Find out the included angles.
- (iv) Calculate the area of the traverse. 5+3+2+5

*Or,*

- (a) Prepare a pie chart based on the data given below, and interpret the graphics. 3+2=5

Village	Oilseed production (kg)
Ramnagar	20.00
Haripur	18.00

( 3 )

Asanda	15.60
Khakenda	10.50
Gorupur	12.00

- (b) Draw appropriate diagram on the male female population at the following CD blocks. Interpret graphics. 7+3=10

Name of the CD block	Population	
	Male	Female
Harischandrapur-I	25350	23728
Harischandrapur-II	16880	15432
Gazole	65980	62486
Ratua-I	15980	14564
Ratua-II	6740	6145

2. Laboratory note book and Viva-Voce. 3+2
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