

Total Pages - 2

UG/1st Sem/GEO(H)/Pr/2019

2019

B. Sc.

1st Semester Examination

GEOGRAPHY (Honours)

Paper : C 2-P

(Practical)

Set-II

Full Marks : 20

Time : 3 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer all questions.

1. The area of a large water body on the original and that of the reproduced map with RF 1 : 64000 is measured as 2.56 sq cm and 4.00 sq cm respectively. What is the scale of original Map? Draw the diagonal scale based on that RF. taking the proper PD, SD and TD. 2+5

[Turn Over]

(2)

two standard parallel extending between 20°N to 80°N latitude and 60°W to 60°E longitude at an interval of 10° apart on a R.F . 1 : 125, 000,000 where 40°N and 60° latitudes are considered as standard parallels. 10

3. Draw a transect chart showing the relationship between Physical (Relief and drainage) and cultural (Settlement and communication) features of the given area marked on the supplied toposheet (examiner(s) will mark the area on the selected toposheet) and interpret the same. 5

4. Practical Note Book and Viva-voce. 2 + 3
-

Total Pages—3
+ Map—2

C/18/B.Sc./2nd Sem/GEOH/C4P(S-1)

2018

2nd Semester

GEOGRAPHY

(Honours)

PAPER—C4P (Set-1)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Cartography (Lab.)

Answer all questions.

1. Run a dummy level survey along a line of 30 m (given in the field) long at 5 m interval taking one changing point at the middle station where the BM is 25.75 m.
 - (i) Prepare a field book and enter the readings neatly.
 - (ii) Calculate the reduced levels with arithmetic check.
 - (iii) Draw a profile on suitable scale. 6+4+5

(Turn Over)

Or

Make a closed traverse survey by Prismatic Compass around the three stations X, Y and Z given in the field.

- (i) Prepare a field book and enter the readings neatly.
- (ii) Make the necessary correction 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

Or,

2. (a) Prepare a suitable thematic map on the following data of North Bengal, 2011 and comment on the literacy rate of six districts :

<i>Sl. No.</i>	<i>Name of the districts</i>	<i>Literary (%)</i>
1.	Darjiling	79.56
2.	Jalpaiguri	73.25
3.	Coochbehar	74.78
4.	North Dinajpur	59.07
5.	South Dinajpur	72.82
6.	Maldah	61.73

8+2

(b) The diagram data shows the male and female population of different CD Blocks of Maldah District in 2011. Draw the suitable diagram. 5

Sl No.	Name of the Cd Blocks	Population (2011)	
		Male	Female
1.	Harischandrapur-I	25346	23723
2.	Harischandrapur-II	16871	15423
3.	Gazole	65979	62485
4.	Ratua-I	15977	14561
5.	Ratua-II	6740	6140

3. Laboratory Note Book and Viva-voce.

3+2

Total Pages—3
+ Map-2

C/18/B.Sc./2nd Sem/GEOH/C4P(S-1)

2018

2nd Semester

GEOGRAPHY

(Honours)

PAPER—C4P (Set-1)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

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(Turn Over)

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3. Laboratory Note Book and Viva-voce.

3+2

Total Page - 3

UG/3rd Sem/GEOG(H)/Pr/19

2019

3rd Semester Examination
GEOGRAPHY (Honours)

Paper - C6P

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.*

Answer all the questions.

Set - I

Answer all the questions :

1. A pH record of different soil samples collected from a field area is given below :

7.2	4.9	5.3	8.2	7.5	4.9	8.9	4.4
6.3	5.8	6.1	7.6	6.5	5.7	7.7	8.0
5.6	6.5	7.1	6.8	8.1	6.4	6.6	7.4
4.2	7.2	8.3	6.2	5.4	7.3	5.5	6.9
6.7	4.8	5.3	7.8	8.2	6.3	6.8	7.5
6.5	5.7	5.2	6.3	7.9	7.0	6.0	6.8
5.4	8.1	7.6	6.7				

[Turn Over]

(2)

- (a) Prepare a proper frequency distribution table.
- (b) Draw the frequency diagram on percentage cumulative frequency.
- (c) Calculate median prentile and upper quartile.
- (d) Estimate the standard deviation of the pH distribution of different samples in the field.

$$3 + 2\frac{1}{2} + 2 + 2\frac{1}{2} = 10$$

2. The following data shows agewise blood pressure of selected persons in a rural area.

Age (year)	Blood Pressure (mm Hg)
56	147
42	128
72	160
36	118
63	149
47	133
59	150
38	124
28	115
49	140
68	154
44	136

(3)

(a) Draw the scatter diagram with regression line.

(b) Estimate the blood pressure when the age is 45
years. $4 + 1 = 5$

3. Laboratory Note Book and Viva-voce. $3 + 2 = 5$

Total Page - 2

UG/3rd Sem/GEOG(H)/Pr/19

2019

3rd Semester Examination
GEOGRAPHY (Honours)

Paper - C6P

(Statistical Methods in Geography)

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.*

Set - IV

Answer all the questions.

1. The daily income of 40 workers (in Rs.) are given below :

252	240	208	205	352	370	262	315
315	218	248	277	385	362	370	288
210	222	245	345	243	263	315	278
247	378	329	205	335	356	277	374
315	211	209	218	248	384	335	331

(a) Prepare a proper frequency distribution table.

[Turn Over]

(2)

- (b) Draw the frequency diagram based on relative frequency.
- (c) Graphically represent median, lower quartile and 5th decile.
- (d) Calculate the standard deviation. $3+2+2\frac{1}{2}+2\frac{1}{2}$
2. Draw the scatter diagram with regression line based on the following data and interpret. 5

Location	Area in Hectare	Crop yield/Hectare
1	37.5	92.5
2	34.5	11.1
3	42.2	10.5
4	51.5	11.8
5	46.2	20.4
6	58.1	16.5
7	85.2	20.0
8	62.1	16.6
9	81.5	27.8

3. Lab note book and Viva-voce 2+3
-

Total Page - 2

UG/4th Sem/Geo/19 (Pr.)

2019

B.Sc.

4th Semester Examination
GEOGRAPHY (Honours)

Paper - C10P

[Practical]

Set - I

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.*

Answer *all* questions.

1. Estimate pH of given soil sample using soil kit. 5

Or

Estimate 'K' value of given soil sample using soil kit.

2. Prepare a questionnaire for collection of information regarding the perception on any environmental

[Turn Over]

(2)

- problem in any urban area. (At least 10 questions addressing the problem) 5
3. Prepare a check-list for Environmental Impact Assessment for any industrial project. 5
4. Laboratory Note Book and Viva-Voce. 5

Total Pages - 2

UG/1st Sem/GEO(H)/Pr/2019

2019

B. Sc.

1st Semester Examination

GEOGRAPHY (Honours)

Paper : C 2-P

(Practical)

Set-I

Full Marks : 20

Time : 3 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer All questions.

(Carographic Techniques Lab)

1. Draw a vernier Scale to read $180^{\circ}26'$ when 14 main Scale divisions coincide with 15 Vernier Scale Divisions The main Scale is divided into $\frac{1}{2}$ of a degree. 5

[Turn Over]

(2)

2. Identify a drainage basin which is not more than 5km. × 5 km. (to be identified by examiner). Divide it into different slope zones using Wentworth's method and interpret it. 6 + 1
 3. Draw graticular of Polar zenithal stereographic projection for North pole up to 45°N latitude at 15° interval with a scale 1 : 80,000,000. 8
 4. Laboratory Note Book and Viva-voce. 2+3
-

Total Page1 - 1

UG/5th Sem/GEO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - C11-P

Research Methodology and Field Work

(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.*

SET - I

Answer *all* questions.

1. Preparation and submission of Field Report following appropriate steps.

(Examiners are requested to strictly follow the instructions mentioned in the syllabus) 15

2. Viva voce. 5

Total Page1 - 1

UG/5th Sem/GEO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - C11-P

Research Methodology and Field Work

(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.*

SET - III

Answer *all* questions.

1. Preparation and submission of Field Report following appropriate steps.

(Examiners are requested to strictly follow the instructions mentioned in the syllabus) 15

2. Viva voce. 5

Total Pages - 2

UG/5th Sem/GEO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - C12-P

Remote Sensing and GIS

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.*

SET - I

Answer either question 1(A) or (B).

1. A. What is image enhancement in remote sensing ?
What are the bands in Landsat OLI ? Prepare
a landsuse map on the given satellite image using
software. 3+2+10=15

Or,

[Turn Over]

B. Georeference and digitize the given map to prepare the administrative units of the map.

6+4+5=15

2. Laboratory Note Book and Viva voce.

5



Total Pages - 2

UG/5th Sem/GEO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - C12-P

Remote Sensing and GIS

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.*

SET - III

Answer either question 1 or 2.

1. (a) Classify the supplied satellite image using supervised classification technique with at least five identifiable classes.
- (b) What is spectral signature ? Explain at least two spectral signature of the physical element from the supplied satellite image. 10+5=15

[Turn Over]

(2)

Or,

2. (a) Georeference the scanned map and prepare a vector layout of the boundary observed in the map.

(b) What is overlay analysis in GIS environment ?

10+5=15

3. Laboratory Note Book and Viva voce.

5

Total Page - 11

UG/5th Sem/Geo(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOGRAPHY

Paper - DSE-1T

Full Marks : 60

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.*

[Hydrology & Oceanography]

Group - A

Answer any *ten* questions from the following.

10×2=20

1. What is aquitard ? 2
2. What is 'aquifer' ? 2
3. What is meant by evapotranspiration ? 2

[Turn Over]

(2)

4. Define pycnocline. 2
5. Mention two measures of infiltration. 2
6. What is atoll ? 2
7. Differentiate guyot and seamount. 2
8. What is amphidromal point ? 2
9. What is EEZ ? 2
10. What is T. S. diagram ? 2
11. What are the properties of a wave ? 2
12. What factors are responsible for salinity of ocean water ? 2
13. What is oceanic ridge ? 2
14. What is oceanic trench ? 2
15. Distinguish between drainage basin and river valley. 2

(3)

Group - B

Answer any *four* questions. $4 \times 5 = 20$

16. Explain the controlling factors of surface runoff. 5
17. Mention the controlling factors of ground water recharge. 5
18. Discuss the different principles of (roof-top) water Harvesting. 5
19. What do you mean by ocean circulation ? 5
20. Explain the different mechanism and causes of sea level change.
21. Classify the tides with their characteristics. 5

Group - C

Answer any *two* question. $10 \times 2 = 20$

22. Make a comparison between subsidence theory and stationary theory of coral reef formation. 10

[Turn Over]

(4)

23. Discuss the factors of genesis of ocean currents. 10
24. Classify marine resources and mention their economic importance. 6+4
25. Discuss the different methods and importance of rain water harvesting. 6+4
-

(5)

[Geography of Health & Wellbeing]

Group - A

Answer any *ten* questions from the following.

10×2=20

1. Mention the modern trends of 'Geography of health'.
2. What do you mean by 'wellbeing' ?
3. What is 'inequality' ?
4. What is 'natural immunity' ?
5. What do you mean by 'morbidity' ?
6. Mention two names of lifestyle related disease.
7. Identify two major functions of W.H.O.
8. What is 'malnutrition' ?
9. How does exposure to household wastes cause health risk ?

[Turn Over]

(6)

10. Mention the name of two biological agents of disease.
11. Identify the scope of 'Geography of Health'.
12. What is 'droplet infection' ?
13. Write the bacteria's name of Pneumonia.
14. Mention the health problems due to climate change.
15. Name some seasonal diseases.

Group - B

Answer any *four* questions. 4×5=20

16. "Geography of Health is a shift towards social model in health care, rather than a medical model." — Elucidate the statement.
17. State the indicators of health with proper example.
18. Discuss the role of population dynamics on health condition.
19. Discuss the relationship between urbanisation and disease with particular reference to Dengue in India.

(7)

20. Write the role of ICDS scheme for preventing malnutrition in India.
21. Briefly identify the major WHO recommended programmes for the development of health and social wellbeing.

Group - C

Answer any *two* questions. $10 \times 1 = 10$

22. What do you mean by 'mental health' ? Discuss the linkage between mental health and environment. 3+7
23. Compare the scenario of 'Health' in developed and developing countries.
24. Describe about the types of various communicable diseases with their regional pattern.
25. Discuss how does environmental pollutions affect human health. What steps to be taken to reduce indoor air pollution ? $7+3$

[Turn Over]

(8)

[Cultural & Settlement Geography]

Group - A

Answer any *ten* questions from the following.

10×2=20

1. Define cultural landscape.
2. Distinguish between 'race' and 'ethnicity'.
3. What do you mean by 'cultural hearth' ?
4. Define megalopolis.
5. Differentiate cultural assimilation from cultural convergence.
6. What is 'social segregation' ?
7. Define 'Administrative city'.
8. Mention the characteristics of rural-urban fringe.
9. What is satellite town ?

(9)

10. Mention two major characteristics of 'Metropolitan city'.
11. What do you mean by 'Cosmopolitan' ? Give example.
12. What do you mean by 'City-Region' ?
13. Define squatter settlement.
14. What is rural-urban dependency ?
15. Give an example of diffusion of language.

Group - B

Answer any *four* questions.

4×5=20

16. Identify the functional classification of cities according to Mckenzie.
17. Enlighten the geographical and administrative distribution and designation of different cultural regions of India.

2½+2½

[Turn Over]

(10)

18. State the characteristics of rural houses in different parts of India.
19. Discuss the factors which are responsible for growth of nucleated settlement of any region.
20. Write the identifying features of different census categories of Indian rural and urban settlements.
21. Describe how religion and language have been the essential twin dimensions for global cultural diffusion throughout the time.

Group - C

Answer any *two* questions. $2 \times 10 = 20$

22. Define race. Discuss the major racial groups which are found in all over world. $2+8$
23. Illustrate how culture, technology and development are intensively related to each other throughout the space over time. What is 'technocentrism' ? $8+2$

(11)

24. Discuss the concentric zone theory of urban morphology as proposed by E. Burges in 1925. Differentiate between Concentric Zone Theory and Multiple Nuclei Theory. 6+4

25. State the characteristics of conurbation. Which method would be used to determine the conurbation? 6+4

Total No. of Pages : 3 BAVBSC(Part-II)/Geog(G)-III(Set-I)(Pr)

2019

Part – II

GEOGRAPHY

(General)

Paper – III

(Practical)

(Set – I)

Full Marks – 100

Time : 6 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

- (a) Draw a diagonal scale to read 3 miles, 5 furlongs 120 yards where R.F-1 : 63,360. 10
- (b) Draw clinograph on the basis of the given data and also identify the climatic type. 8+2=10

Month	J	F	M	A	M	J
Wet Bulb Temp (°F)	36.3	39.4	45.5	35.5	60.2	68.8
Relative Humidity(%)	85	75	70	59	50	56

P.T.O.

Month	J	A	S	O	N	D
Wet Bulb Temp (°F)	70.9	70.8	65.9	56.2	60.3	45.4
Relative Humidity(%)	55	45	56	50	52	55

2. (a) Draw a choropleth map to show the distribution of density of population of Maldah district and interpret it. 8+2=10

Police station	Area ('000 hectares)	Population ('000)
Harishchandrapur	38.87	177.33
Chanchal	36.81	177.91
Ratua	51.36	195.16
Gajole	51.37	143.43
Bamangola	20.62	66.77
Habibpur	39.71	113.17
Maldah	22.64	71.08
Englishbazar	25.68	182.99
Manikchak	31.62	126.72
Kaliachak	53.64	538.10

- (b) Define generating globe. Draw a polar zenithal stereographic projection to show 30°S to 90°S and 150°E to 150°W at an interval of 10°, when the RF is 1:100,000,000. 2+13

3. Interpret the given topographical map under the following heads (Map will be provided and area will be selected in the examination centre)
- (a) Drainage characteristics and patterns.
 - (b) Draw a transect chart (16 cm length) to show the relationship between physical and cultural features. 12+8
4. (a) Make a closed traverse survey by Prismatic Compass for an area of ABCD and – 6+4+5
- (i) Enter the readings in a neatly drawn field book.
 - (ii) Complete the table with necessary calculations.
 - (iii) Plot the data with suitable scale.
- (b) Prepare a questionnaire schedule (at least 15 questions) to conduct a field survey in a village to understand the nature of female education in the area and its impact on socio economic development of the area. 10
5. Laboratory Notebook and Viva-voce. 5+5=10
-