



**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 2nd Semester Examination, 2022

**GEOACOR03T-GEOGRAPHY (CC3)**

**HUMAN GEOGRAPHY**

Time Allotted: 2 Hours

Full Marks: 50

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.*

**CATEGORY-A**

**Answer any two questions from the following within 600 words each** 10×2 = 20

1. Analyse the role of language and religion in creation of the cultural groups.
2. “Lifestyle of the Masai is a fine example of human adaptations to environment” — Justify the statement with proper arguments.
3. Critically discuss the Demographic Transition Model.

**CATEGORY-B**

**Answer any four questions from the following within 150 words each** 5×4 = 20

4. What is the role of religion in the creation of cultural regions?
5. Discuss the major problems faced by Pastoral Nomadism under recent global climate change phenomena.
6. What are the major consequences of rapid population growth in India?
7. State the socio-economic differences between agrarian and industrial societies.
8. Mention the main concept of Concentric Zone Model postulated by E. Burgess.
9. What are the major human ethnic groups of the world?
10. “Morphology of Indian villages reflects social segregation” — Elucidate.

**CATEGORY-C**

**Answer any five questions from the following within 50 words each** 2×5 = 10

11. What is the difference between a language and a dialect?
12. What is a ‘satellite town’?



13. What are the major problems of the industrial society?
14. What is human ecology?
15. What is 'Zero population' growth?
16. Define 'population explosion'.
17. What is urbanization?
18. What is ethnicity?
19. Define optimum population.

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 2nd Semester Examination, 2022

**GEOACOR04T-GEOGRAPHY (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

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All symbols are of usual significance.*

**GROUP-A**

**Answer any one question from the following**

10×1 = 10

1. Determine the Reduced Level and Height of Collimation from the given readings where Bench Mark is at station A i.e. 10.00 m. and change points are D and J.  
Stations — A, B, C, D, E, F, G, H, I, J, K  
Staff readings — 4.870, 4.680, 4.500, 4.300, 5.280, 5.130, 5.452, 4.95, 4.900, 4.800, 4.700, 4.955, 4.855  
Stations are situated at 5.00 m. interval.
2. Explain the construction principle and method of Choropleth Map. Distinguish between Choropleth and Isopleths.

7+3 = 10

**GROUP-B**

**Answer any four questions from the following**

5×4 = 20

3. Find out the scientific notation for 0.00000000578 and anti-log value of 2.5463
4. Distinguish between whole circle bearing and Reduced bearing.
5. Determine the height of a object (A) from the base (B) when the height of the instrument at station of observation (X) is 1.30 m. and the distance between X and B is 20.00 m. The vertical circle readings obtained by a theodolite from station of observation are 18°20' and 18°30' on left and right face respectively.
6. Describe the types and uses of socio-economic maps.
7. Calculate the ground area of a closed traverse Prismatic compass survey when AB = 12 m. BC = 10 m. and CA = 14 m.
8. Describe the importance of Dot and Sphere map in geographical study.
9. Describe the various types of Bearing with suitable diagram.



**GROUP-C**

**Answer any five questions from the following**

10. What is mantissa?
11. Round the 5868 into nearest thousand and round the 4537 into nearest ten.
12. What is magnetic declination?
13. Calculate the slope and gradient between P and Q, when the Reduced level of the points are 436 m. and 218 m. respectively and the distance between P and Q is 10 km.
14. Convert Whole Circle Bearing (WCB) of Line AB =  $198^\circ$  into Reduced Bearing and Reduced Bearing of Line CD = N  $55^\circ$  W into Whole Circle Bearing.
15. Mention with example the use of pie diagram to represent socio-economic data.
16. Distinguish between true north and magnetic north.
17. Define closing error.
18. What is index of power?

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**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 2nd Semester Examination, 2021

**GEOACOR03T-GEOGRAPHY (CC3)**

**HUMAN GEOGRAPHY**

Time Allotted: 2 Hours

Full Marks: 50

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**CATEGORY-A**

**Answer any two questions from the following within 600 words each** 10×2 = 20

1. Write a brief note on Sector model in Geography. How can you fit it with Kolkata Metropolitan Region? 7+3
2. Mention the trend of population growth of the world. How are different phases of the population growth related with the economic development of any region? 5+5
3. Discuss the theories of the origin and evolution of society in brief. 10

**CATEGORY-B**

**Answer any four questions from the following within 150 words each** 5×4 = 20

4. Briefly describe the pattern of rural settlement with suitable sketches.
5. What are the major consequences of rapid population growth in South East Asian countries?
6. Write about the major religions of the world in short.
7. Discuss the major racial patterns of the world in brief.
8. Discuss about the environmental approach of Human Geography.
9. Distinguish between regressive and progressive population.
10. What is the role of language in the creation of cultural regions?



**CATEGORY-C**

**Answer any five questions from the following within 50 words each**

2×5 = 10

11. Why was urbanization concentrated in the major ports during the British Period?
12. How is shifting farming society creating threat to the environmental sustainability?
13. Why does most of the rural settlements develop in the hill top in hilly regions?
14. What is Dialect?
15. What is cephalic index?
16. Define Population Projection.
17. What do you mean by Human Environment?
18. Explain the function of CBD.
19. What do you mean by negative stage of demographic transition?

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**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 2nd Semester Examination, 2021

**GEOACOR04T-GEOGRAPHY (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

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**GROUP-A**

**Answer any *one* question from the following**

10×1 = 10

1. What is the magnetic bearing of a line? Describe the Whole Circle System and Quadrant System of bearing with suitable diagrams. 3+7 = 10
  
2. How do you determine the horizontal distance between two points by Theodolite? From the given Prismatic compass survey data (Table 1) calculate included angles and area of the traverse: 5+5

Table-1

| Line | Length<br>(m) | Corrected Bearing |         | Remarks                           |
|------|---------------|-------------------|---------|-----------------------------------|
|      |               | FB                | BB      |                                   |
| AB   | 8.96          | 181°15'           | 1°15'   | Survey was done<br>anti-clockwise |
| BC   | 6.45          | 109°15'           | 289°15' |                                   |
| CD   | 9.75          | 20°45'            | 200°45' |                                   |
| DA   | 9.51          | 282°30'           | 102°30' |                                   |

**GROUP-B**

**Answer any *four* questions from the following**

5×4 = 20

3. Find out scientific notation for 10.4700000000, and anti-log value of  $-2.94628$  (with the help of five-figure log/anti-log table).
  
4. What is triangulation? Explain how triangulation is applied in the field.
  
5. Simplify:  $\log_{10} (250 \times 150) / 375$ .
  
6. A Theodolite survey was conducted and the following observations are recorded (Table 2). With the given data determine the height of the object from its base, B (accessible).



| Table-2                |        |       |                         |   |
|------------------------|--------|-------|-------------------------|---|
| Station of observation | Object | Face  | Vertical circle reading | Remark  |
| A                      | P      | Left  | 17°20'                  | <ul style="list-style-type: none"> <li>• AB = 18 m on a more or less level surface</li> <li>• Instrument height at A = 1.6 m</li> </ul> |
|                        |        | Right | 17°30'                  |   |

7. What is the purpose of using Bowditch's Method in Prismatic Compass Survey? What are the other errors occurring in this type of survey?
8. State the various types of time series data represented by Lines Graphs. Why some data are can only be represented by Line and not Bar graphs?
9. Why logarithmic scale is used for representing geographical data? Explain with example(s).

### GROUP-C

**Answer any five questions from the following**

2×5 = 10

10. Differentiate between Proportional Circles and Pie Diagrams.
11. Convert Whole Circle Bearing (WCB) of Line AB = 195° into Reduced Bearing (RB), and RB of Line CD = N 35°W into WCB.
12. Round off 10.2637 of the nearest tenths, hundredths and thousands.
13. Do you think slope and gradient are the same? Justify your answer.
14. Find out the included angle between the Lines AB and BC when it's Forward Bearing of AB is 77°30' and Backward Bearing of BC is 176°00'.
15. Differentiate between Geographical north and Magnetic north line.
16. How is the line of collimation obtained in a Dumpy Level Survey?
17. Why sphere is used to represent the urban population? Determine the radius of a sphere for an urban population of 705128.
18. Convert 76°30'40" into radian value.

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**WEST BENGAL STATE UNIVERSITY**  
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**GEOACOR03T-GEOGRAPHY (CC3)**

**HUMAN GEOGRAPHY**

Time Allotted: 2 Hours

Full Marks: 50

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**CATEGORY-A**

**Answer any two questions from the following within 600 words each** 10×2 = 20

1. Discuss the different approaches to Human Geography.
2. Define a Rural Settlement. Discuss the different patterns of compact rural settlements with examples.
3. Give a description of human adaptation to the environment in respect to their economic and social life with special reference to Masai.

**CATEGORY-B**

**Answer any four questions from the following within 150 words each** 5×4 = 20

4. Discuss the spatial distribution of major world languages.
5. What are the elements for identification of ethnicity?
6. Mention the important characteristics of tertiary sectors of economy in an Industrial Society.
7. What are the characteristics of Brazilian Type of population resource region as discussed by Ackerman?
8. Mention the role of language information of cultural regions in India.



9. Define Society. Discuss the characteristics of Modern society.
10. Describe in brief the classical model of urban morphology.

### CATEGORY-C

**Answer any *five* questions from the following within 50 words each**

2×5 = 10

11. What is transhumance?
12. Define Optimum population.
13. What is an Age-sex-pyramid?
14. Define Social space.
15. What is meant by high potential growth in Demographic Transition Model?
16. Give two examples of hunting and food gathering people still found today.
17. In which environmental condition are dispersed settlements formed?
18. What are the reasons for forming multiple business districts in cities and towns?
19. Define Geographical location.

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**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 2nd Semester Examination, 2020

**GEOACOR04T-GEOGRAPHY (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

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**GROUP-A**

**Answer any one question from the following**

10×1 = 10

1. What is meant by Traverse Survey? Write the different types of Traverse Survey. Distinguish between Triangulation Survey and Traverse Survey. 3+3+4
2. Explain the concept of logarithmic curve and logarithmic scale. Why should you use isopleths method for a drainage density map and choropleth method for a population density map? 6+4

**GROUP-B**

**Answer any four questions from the following**

5×4 = 20

3. Find out scientific notation for 5.2300000000 and anti-log value of 3.68294. (with the help of five figure log/anti-log table)
4. Discuss the suitability of bar graph and line graph on the basis of the types of data to be used for them.
5. A Theodolite survey was conducted and the following observations are recorded. With the given data determine the height and horizontal distance of the object from the observation station A.

| Station of observation | Object | Face  | Vertical circle reading | Additional information   |
|------------------------|--------|-------|-------------------------|--|
| A                      | P      | Left  | 15°50'                  | <ul style="list-style-type: none"> <li>• AB=15m</li> <li>• Instrument height at A=1.4m</li> <li>• Instrument height at B=1.5m</li> </ul> |
|                        |        | Right | 15°40'                  |  |
| B                      | P      | Left  | 25°35'                  |  |
|                        |        | Right | 25°25'                  |  |

6. Show that  $\log_2 10 - \log_g 125 = 1$ .



7. How do you calculate ground area of the traverse ABC having three unequal sides?
8. Write the different sources of error during the Prismatic Compass Survey.
9. A closed Traverse Survey was done in the field and following readings were taken but some data were found to be missing (Marked as?). Complete the table assuming that the Survey did not involve any error.

| Line | Distance in Mts. | Forward Bearing | Backward Bearing |
|------|------------------|-----------------|------------------|
| AB   | 12.8             | N42°45'E        | ?                |
| BC   | 4.5              | ?               | N83°15'W         |
| CD   | 7.8              | ?               | N39°30'W         |
| DE   | 13.33            | S62°15'W        | ?                |
| EA   | 14.98            | N47°30'W        | ?                |

### GROUP-C

Answer any *five* questions from the following

2×5 = 10

10. Define Mean sea level.
11. What is Magnetic Declination?
12. What is the difference between Bench Mark and Reduced Level?
13. Convert the following Whole Circle Bearing (WCB) into Reduced Bearing:  
(i) WCB of CD = 120° and (ii) WCB of AB = 315°
14. Why should you consider Dumpy Level as a useful instrument for ground survey?
15. Why is rural population shown by dots?
16. Round off 7.2836 of the nearest tenths, hundredths and thousandths.
17. Distinguish between Land use and Land cover Maps.
18. Distinguish between composite and compound bar graphs.

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**HUMAN GEOGRAPHY**

Time Allotted: 2 Hours

Full Marks: 50

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**CATEGORY-A**

**Answer any two questions from the following within 600 words each** 10×2 = 20

1. Discuss the nature and scope of Human Geography. What do you mean by environmental approach in Human Geography? 7+3
2. Discuss the theories in relation to the evolution of human society. What is cultural region? 7+3
3. Discuss the Multiple Nuclei model of urban settlement. What is meant by urban conurbation? 8+2

**CATEGORY-B**

**Answer any four questions from the following within 150 words each** 5×4 = 20

4. At present which stage of demographic transition model is applicable for India? Justify your answer.
5. Describe the causes of uneven distribution of population in India.
6. Discuss the types of rural settlement in brief.
7. Distinguish between absolute and relative space.
8. What do you mean by 'zero' and 'negative' growth of population?



9. 'Lifestyle of the Eskimos is a suitable example of human adaptation to environment' – Justify the statement.
10. Describe the characteristics of Egyptian type of population-resource region after Ackermen.

**CATEGORY-C**

**Answer any five questions from the following within 50 words each**

**2×5 = 10**

11. Define Culture.
12. What is man-land ratio?
13. What is meant by population composition?
14. Mention the non-physical causes of development of rural settlement.
15. What is meant by locational analysis in geography?
16. What is pastoral nomadism?
17. What do you mean by ethnicity?
18. Write briefly the primary economic activities of Maori people.
19. Mention four important characteristics of an Industrial Society.

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**WEST BENGAL STATE UNIVERSITY**  
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**GEOACOR04T-GEOGRAPHY (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

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**GROUP-A**

Answer any *one* question from the following

10×1 = 10

1. Explain the construction principles of Dots and Spheres to represent rural and urban populations. Why is urban population shown by sphere? 7+3 = 10
2. What is magnetic bearing? Describe the systems to designate reduced bearing with necessary diagrams. 2+8 = 10

**GROUP-B**

Answer any *four* questions from the following

5×4 = 20

3. What is scientific notation? Convert 676,000,000 and 0.00005278 into scientific notations. 3+2 = 5
  4. Mention the difference between natural and log scales. Represent both graphically. 2+3 = 5
  5. Describe the use of choropleth mapping in representing socio-economic data. 5
  6. How do we represent land use land cover data using maps and diagrams? 5
  7. Find logarithm values of .00752 and 6952.4. 5
  8. Convert the following Whole circle bearing to Quadrantal bearing with the help of a diagram. 5
- (a) WCB of AB = 45°30'                      (b) WCB of BC = 125°45'  
(c) WCB of CD = 222°15'                      (d) WCB of DE = 320°30'



9. Describe in brief the collimation and rise and fall systems of calculating reduced level with examples.

**GROUP-C**

**Answer any five questions from the following**

**2×5 = 10**

10. What is meant by mounding?
11. What is local attraction in case of prismatic compass survey?
12. What is meant by vernier constant?
13. What is the difference between angle and bearing?
14. With example mention the use of line graphs in representing socio-economic data.
15. What do you mean by collimation level and bench mark?
16. What is the function of upper plate in Theodolite?
17. Differentiate between proportional circle and pie graphs.
18. Define Traversing.

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