



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

**GEOACOR04T-GEOGRAPHY (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

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

**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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