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   2×5 = 10

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 $AB = 198°$ into Reduced Bearing and Reduced Bearing of Line $CD = N\,55°\,W$ 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.*

——×——