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

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. What is meant by Traverse Survey? Write the different types of Traverse Survey.   3+3+4
    Distinguish between Triangulation Survey and Traverse Survey.

2. Explain the concept of logarithmic curve and logarithmic scale. Why should you   6+4
    use isopleths method for a drainage density map and choropleth method for a
    population density map?

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′	• AB=15m
		Right	15°40′	• Instrument height at A=1.4m
B	P	Left	25°35′	• Instrument height at B=1.5m
		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.

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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