Ex/SC/GEOG/UG/CORE/TH/02/2024(OLD)

BACHELOR OF SCIENCE EXAMINATION, 2024

(1st Year, 1st Semester)

GEOGRAPHY

PAPER: C102T (SC/GEOG/UG/CORE/TH/02)

(Basics of Cartography)

Time: 1½ Hours Full Marks: 30

GROUP-A

Answer any one question.

 $10 \times 1 = 10$

- 1. A square area of 40 sq. km has been drawn on a map of 1:50,000. Then, the map was reduced to 1:40,000 scale. What will be the length of a side of the square on the new map? Classify scale.

 5+5
- 2. Highlight the major characteristics and importance of UTM projection. A cube of 5 cm sides represents a tank of 1000 m³ volume. Find the RF.

GROUP-B

Answer any two questions.

 $5 \times 2 = 10$

3. Write a short note on the different forms of geographical data representation.

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(2)

- **4.** Why is the shape of Earth known as 'oblate spheroid'? Mention the significance of good concept.
- **5.** Explain the relationship between radial and tangential scale factors on an equal area projection. What is a loxodrome?
- **6.** Classify map projections based on the method of projection. What is the perpendicular distance of 60° N parallel from the equator on Earth?

GROUP—C

Answer any two questions.

 $2\times2=4$

- 7. Differentiate between Cartesian coordinates and Polar coordinates.
- **8.** What is datum?
- 9. Calculate the length of 40° S parallel on Earth surface in km.
- 10. Define Vernier constant.

Internal Assessment

06



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