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3 SEM TDC GGRH (CBCS) C 5

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(Held in January/February, 2022)

GEOGRAPHY

(Core)

Paper : C-5

(**Cartography**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : $1 \times 5 = 5$

(a) Equator cannot be drawn in Polar
Zenithal Gnomonic Projection.

(Write True or False)

(b) Orthomorphism / Equal area / Ortho-
graphic property is mentioned in
Bonne's projection.

(Choose the correct answer)

(2)

(c) Name the instrument by which 'rise and fall' method is applied to compute the level.

(d) The term 'change-point (CP)' is associated with Plane table / Prismatic compass / Dumpy-level / Theodolite survey.

(Choose the correct answer)

(e) The line of collimation is also called the line of sight.

(Write True or False)

2. Write short notes on the following (each **within 100 words**) : 3×4=12

(a) The Mercator projection

(b) Perspective group of projections

(c) Open and closed traverse survey

(d) Intersection method of plane table surveying

3. Discuss the history of development of map projection mentioning the important contributions of different scholars. 12

4. Define surveying. Discuss about the horizontal and vertical control of surveying method. 12

(3)

5. A running closed traverse survey is given below. The length and bearing of the line *DA* could not be measured due to the presence of some obstruction between *A* and *D*. Calculate the length and bearing of the line *DA* :

6+6=12

<i>Line</i>	<i>Length (in m)</i>	<i>Bearing</i>
<i>AB</i>	38	215°30'
<i>BC</i>	55	164°45'
<i>CD</i>	85	35°0'
<i>DA</i>	—	—

Or

What is levelling? Discuss the different types of levelling.

2+10=12

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