

Ex/SC/GEOG/UG/MAJOR/PR/11/102/2025

BACHELOR OF SCIENCE EXAMINATION, 2025

(1st Year, 1st Semester)

GEOGRAPHY

PAPER : PR/11/102

[Cartographic Techniques]

Time : Two Hours

Full Marks : 40

Answer *all* questions.

1. Describe the principle of Vernier scale. What are the advantages and disadvantages of Isopleth map? How do you convert Cartesian coordinates to polar coordinates?

3+4+3=10

2. Draw a Graticules of Bonne's projection for the map of India extending from 8° North to 40° North and 66° East to 98° East at an interval of 4° on the scale of 1 : 25000000..

15

3. Prepare a divided proportional circles map (Map 1) using the following data table :

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Sl. No.	Name of the district	Main workers	Marginal workers	Marginal workers
1	Darjeeling	532855	112753	1163097
2	Koch Bihar	886357	203573	1691109
3	Murshidabad	2022083	474049	4513900
4	Maldah	1050995	394901	2450998
5	Bardhaman	2166742	606953	4806312

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Sl. No.	Name of the district	Main workers	Marginal workers	Marginal workers
6	Puruliya	613398	472823	1680473
7	Bankura	916393	408300	2130454
8	Hugli	1714645	355100	3366275
9	Nadia	1595880	209431	3324993
10	Haora	1496267	262836	3030184

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