

1st Semester

GEOGRAPHY

PAPER—C2T

(Honours)

Full Marks . 40

Time . 2 Hours

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Cartographic Techniques

Group—A

1. Answer any *one* questions from the following within 800 words ; 1×10

(a) State the Principles and applications of UTM Projection. Which map projection would you choose for land use map and why ? 3+4+3

(Turn Over)

- Q4 Mention and discuss the different series of topographical maps with reference scheme published by the SOI (Survey of India). 10

Group—B

2. Answer any four questions from the following within 400 words : 4×5

(a) What is Vernier constant? State the advantages of diagonal scale in terms of its applicability over the plane scale. 2+3

(b) Mention the uses of Abney Level and Clinometer. 2½+2½

(c) Explain how WCB (Whole Circle Bearing) and RB (Reduced Bearing) can be converted to one another. What are the disadvantages of Prismatic compass survey. 3+2

(d) Differentiate between Geodetic Survey and Plane Survey. What is the importance of using prism in Prismatic Compass? 3+2

- (e) Distinguish between geoid and spheroid? 5
- (f) Classify map projections on the basis of preservation of properties. 5

Group—C

3. Answer any *five* questions from the following within 150 words : 5×2

- ~~(a) Why has ratio scale got the universal applicability?~~
- ~~(b) What is radial scale?~~
- ~~(c) Define Rhumblin.~~
- ~~(d) What is 'Cadastral Map'?~~
- ~~(e) What is 'Magnetic Declination'?~~
- ~~(f) Define Parallel.~~

(g) Mention RF of following toposheets :

i) 55

ii) 55E

iii) $55 \frac{E}{10}$

iv) 55E / 10 / NE

~~(h)~~ Define Standard Parallel.
