

B.A. (Liberal Arts)
CORE COURSE (CC): CARTOGRAPHIC TECHNIQUES
(BLAB331207T) SEMESTER II

MAX MARKS:50
EXTERNAL:35
INTERNAL:15
PASS:40%
Credits:2

OBJECTIVES

To develop the basic understanding of maps work, conceptually and technically as well as science and art of cartography.

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.

SECTION A

- UNIT 1:** Nature and Scope of Cartography; Scale: Meaning and its Types.
- UNIT 2:** Map and its Types, Interpretation of Topographical Maps.
- UNIT 3:** Directions and Bearings: Plotting of a course, True North, Magnetic North, finding True North with the Pole star, watch and a rod
- UNIT 4:** Representation of Relief (Spot heights, Trigonometrically stations, Bench Marks, form Lines, Contours, Hachures, Hill-shading and Layer tints).
- UNIT 5:** Weather Maps: General introduction to the study of weather maps, the scheme of

weather symbols, Beaufort's scale in Indian Daily Weather Maps.

SECTION B

Cartographic Techniques (Practical)

- UNIT 6:** Construction of Scale- Simple, Comparative, Time and Diagonal
- UNIT 7:** Representation of Relief Features; Interpretation of Topographical Maps
- UNIT 8:** Construction of Directions and Cardinal Points,
- UNIT 9:** Interpretation of daily Indian weather maps.
- Unit 10:** Record of Practical Work & Viva-Voce.

Practical Record: A Project File in pencil, comprising one exercise each, on scale, map projection, interpretation of topographic sheet

Suggested readings:

- Anson R. and Ormelling F. J., (1994) International Cartographic Association: Basic Cartographic Vol. Pregmen Press.
- Gupta K.K. and Tyagi, V. C., (1992) Working with Map, Survey of India, DST, New Delhi.
- Maltiyar. K. K & Maltiyar S. R., (2019) Concept of Cartography, Remote Sensing and GIS, Rajesh publication, New Delhi.
- Mishra R.P. and Ramesh, A., (1989) Fundamentals of Cartography, Concept, NResource & Economic Geographyew Delhi.
- Monkhouse F. J. and Wilkinson H. R., (1973) Maps and Diagrams, Methuen, London.
- Rhind D. W. and Taylor D. R. F., (eds.), (1989) Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
- Robinson A. H., (2009) Elements of Cartography, John Wiley and Sons, New York.
- Sharma J. P., (2010) Prayogic Bhugol, Rastogi Publishers, Meerut.
- Singh R. L. and Singh R. P. B., (1999) Elements of Practical Geography, Kalyani Publishers, New Delhi.
- Sinha. M.M. P., (2017) Uchh Cartography, Rajesh Publication, New Delhi.
- Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
- Singh R L & Singh Rana P B, (1991) Prayogtmak Bhugolke Mool Tatva, Kalyani Publishers, New Delhi.
- Sharma, J P (2010) Prayogtmak Bhugol ki Rooprekha, Rastogi Publications, Meerut.
- Singh, R L & Dutta, P K (2012) Prayogatmak Bhugol, Central Book Depot, Allahabad.