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**B.A. First Year Subject: Geography Practical –
Cartography-I**

UNIT – I

1. History of Cartography (as art and science)
2. Scales: definition, types – Statement scale, Representative Fraction (R.F.) and Graphical scale. Inter-conversion of R.F. and Statement scale. Construction of Plain, Comparative, Diagonal, Time and Vernier scales 10 exercises
3. Enlargement, reduction and combination of maps 02 exercises
Note : One exercise per sheet.

UNIT – II

1. Methods of representation of relief – Hachures, Formlines, Contours and Layer Tint methods
04 exercises on sheet.
2. Draw diagram on following topographic features :
 1. Fluvial topography - Water Fall, V-shape Valley, Oxbow lake, Embankment.
 2. Arid topography - inselberg, Dunes, Mesa, Yardang.
 3. Karst topography - Yuvala, Stalactite and Stalagmites, Lapies, Doline.Note : Four diagram of each topography on per sheet. 06 exercises
3. Profiles- types of profiles. Construction of serial (at least four),superimposed, projected and composite profiles 02 exercises

UNIT - III

1. Principles and working of weather instruments – thermometer, thermograph, barometer, barograph, hygrometer, hygrograph, rain gauge, wind vane and cup anemometer (Each exercises contains short note and nomenclature of diagram) 08 exercises
2. Weather symbols. Interpretation of Indian weather maps (One each of December- January and July- August) 02 exercises
3. Representation and interpretation of climatic data – Rainfall histogram, Hythergraph, Climograph, Rainfall variability graph (departure from mean) 04 exercises

Notes

1. Each exercise should be drawn on 1/4th of a full drawing sheet.
2. Ex-students will have to complete the prescribed practical work under the guidance of the Head of the Department of the respective college and to produce a certificate to that effect before the commencement of the examination.
3. The test paper will be of two hours duration. Candidates will be required to answer three questions out of six attempting at least one question from each unit.
4. This test paper will be conducted by University along with theory papers. The maximum marks of this paper will be 30 marks.

Scheme of examination

1. Candidates will be examined by Internal Examiner as per existing norms of the University
2. The distribution of marks will be as follows .

(a)	Record	15 Marks
(b)	Viva Voce	15 Marks
Total		30 Marks

3. The Student must pass with exams separately with minimum of 25% marks in each and 36 % in total.

Suggestive:

1. Ahmed, K. S., Simple Map Projection, Friends Book House, Aligarh.
2. Bygott, J., An Introduction to Map Work and Practical Geography, University Tutorial Press, London.
3. Meux, A. H., Reading Topographical Maps, University of London Press.
4. Mishra, R. P. and A. Ramesh, Fundamentals of Cartography, Concept Publishers, New Delhi.
5. Monkhouse, F. J., Maps and Diagrams, Methuen & Co. Ltd., London.
6. Raize, E., General Cartography, McGraw Hill Book Co., London.
7. Robinson, A. R., Elements of Cartography, Chapman & Hall.
8. Singh, R. L. and P. K. Dutt, Elements of Practical Geography, Student Friends, Allahabad
9. Singh, R. L., Elements of Practical Geography, Kalyani Publishers.
10. Singh, R. N. and L. R. S. Kanaujia, Map Work & Practical Geography, Central Book Depot, Allahabad.
11. Tamaskar E. G. and V. M. Deshmukh, Geographical Interpretation of Indian Topographical Maps, Orient Longman.
12. शर्मा जे०पी० : प्रयोगात्मक भूगोल, रस्तोगी प्रकाशन मेरठ।
13. जैन शेषमल : प्रयोगात्मक भूगोल, साहित्य भवन, आगरा।
14. वर्मा एवं लोढ़ा : प्रयोगात्मक भूगोल, राजस्थान हिंदी ग्रंथ अकादमी, जयपुर।