

**M.A. / M.Sc. (Previous) Geography**  
**Practical - I: Advanced Cartography**

**Unit - I**

- a) Meaning of cartography, art & science of cartography, history of cartography.
- b) Cartographic materials and techniques.
- c) Quantitative and qualitative symbols.
- d) Maps and their classification.
- e) Sources of geographic data (India).

The representation of data, information, features related to the following geographical aspects through maps and diagrams and their interpretation (to be submitted along with the record work):

**Unit - II**

Climatic aspects:

- a) Isohyets or isotherms
- b) Rainfall dispersion diagram.
- c) Rainfall variability graphs (running average and cumulative deviation).
- d) Rainfall trend line.
- e) Temperature variation graph.

**Unit - III**

Geomorphic aspects (based on toposheets of 1:50,000 or 1:25,000 scale):

- a) Profiles: serial, composite, superimposed and projected.
- b) Slope: average slope map according to Wentworth's method.
- c) Drainage density and texture.
- d) Stream order & River Basin
- e) Hypsometric curve

**Unit - IV**

Demographic, transport and settlement aspects (atleast with 20 administrative units):

- a) Density and population trend.
- b) Age and Sex composition.
- c) Urban and rural composition.
- d) Traffic flow: cartograms.
- e) Nearest neighbour analysis.

**Unit - V**

Economic and social aspects (atleast 20 administrative units):

- a) Occupational structure.
- b) Cropping pattern
- c) Crop production and area.
- d) Literacy.
- e) SC and ST population.

Note: The record work will comprise of a minimum of 20 exercises drawn on one-fourth of a full drawing sheet and methodological and analytical interpretation of each one.

### **Distribution of Marks**

**Total Marks 100**

**A Part – Advance Cartography (40 Marks )** ,Practical paper of three hours duration will be held along with main theory paper examination.

Section – A Objective type 5 marks. Asked 10 questions, attempt all questions.

Section – B Short Answers – 20 marks, Asked 10 questions, one question from each unit and attempt five questions.

Section-C Descriptive type-15 marks ,Asked 5 questions, one question from each unit and attempt two questions

**Practical** – Assessed by Internal Examiner

### **B Part – Advance Cartography, (60 marks)**

A Test paper Lab exercise – 30 marks, asked 6 questions, attempt three questions and duration 3 hours.

B - Record work – 20 marks

C - Viva-voce – 10 marks

The Cartographic record work should contain 20 exercises drawn on one fourth of the full drawing sheet.

### **References:**

1. Arthur G., Advance Practical Geography, Heinemann.
  2. Campbell, J., Introductory Cartography, Prentice Hall Inc., New York.
  3. Govt. of Rajasthan, District Census Handbooks, latest as well as of previous Census,
  4. Keates, J. S., Cartographic Design and Production, Longman, London.
  5. Loxton, J., Practical Map Production, John Wiley & Sons, New York.
  6. Mishra, R. P. and A. Ramesh, Fundamentals of Cartography, Concept Publishers, New Delhi.
  7. Monkhouse, F. J. and H. R. Wilkinson, Maps and Diagrams, Methuen & Co., London.
  8. Raisz, E., General Cartography , McGraw Hill Book Co., New York.
  9. Robinson, A. H., Elements of Cartography, Chapman & Hall.
  10. Sing, R. L., Elements of Practical Geography, Kalyani Publishing.
  11. Singh, R. N., Map Work and Practical Geography, Central Book Depot.
- 12<sup>प</sup> शर्मा, जे. पी.: प्रयोगात्मक भूगोल (रस्तोगी पब्लिषर्स, मेरठ)