

4119
M.A. (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) Stream orders and basin demarcation
- d) Drainage density and texture.
- 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 50

Practical – Assessed by Internal Examiner

Part – Advance Cartography, (50 marks)

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

B - Record work – 10 marks

C - Viva-voce – 10 marks

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

Suggested Readings:

- Arthur G., Advance Practical Geography, Heinemann.
- Campbell, J., Introductory Cartography, Prentice Hall Inc., New York.
- Govt. of Rajasthan, District Census Handbooks, latest as well as of previous Census,
- Keates, J. S., Cartographic Design and Production, Longman, London.
- Loxton, J., Practical Map Production, John Wiley & Sons, New York.
- Mishra, R. P. and A. Ramesh, Fundamentals of Cartography, Concept Publishers, New Delhi.
- Monkhouse, F. J. and H. R. Wilkinson, Maps and Diagrams, Methuen & Co., London.
- Raisz, E., General Cartography, McGraw Hill Book Co., New York.
- Robinson, A. H., Elements of Cartography, Chapman & Hall.
- Sing, R. L., Elements of Practical Geography, Kalyani Publishing.
- Singh, R. N., Map Work and Practical Geography, Central Book Depot.
 - शर्मा, जे. पी. : प्रायोगिक भूगोल, रस्तोगी प्रकाशन, मेरठ
 - खुल्लर, डी. आर., प्रयोगात्मक भूगोल, कल्याणी पब्लिशर्स, नईदिल्ली
 - मिश्रा, आर. एन. एवं शर्मा, पी. के.: प्रायोगिक भूगोल, रावत पब्लिकेशन्स, जयपुर
 - जैन, शेषमल : प्रयोगात्मक भूगोल, साहित्य भवन, आगरा
 - भल्ला, आर. एल. : प्रायोगात्मक भूगोल, के. डी प्रकाशन, अजमेर
 - मामोरिया, चतुर्भुज : मानचित्र विज्ञान एवं प्रायोगात्मक भूगोल, साहित्य भवन, आगरा
 - वर्मा, एल. एन. व लोढ़ा, आर. एम. : प्रायोगात्मक भूगोल, राज. हिन्दी ग्रंथ अकादमी, जयपुर
 - सिंह, एल. आर. : मानचित्र एवं प्रायोगात्मक भूगोल, सेन्ट्रल बुक डिपो, इलाहाबाद
 - सिंह एवं कन्नोजिया : प्रायोगात्मक भूगोल की रूपरेखा, सेन्ट्रल बुक डिपो, इलाहाबाद