M.A./M.Sc. Geography Second Semester Practical – I (42365 A) Advanced Cartography

Unit – I

- a) Nature, scope & History of cartography
- b) Techniques & Tools of Cartography
- a) Maps and their classification: Distributional maps
- c) Representation of Statistical Data: Diagrams-One, Two, Three Dimensional (3)

Unit - II

Geomorphic aspects based on toposheets of 1:50000 or 1:25000 (4 exercise)

- a) Stream orders and basin demarcation
- b) Drainage density and texture
- c) Slope: average slope maps according to Wentworth's method
- d) Profiles: serial, composite, super-imposed, &projected Profiles

Unit - III

Climatic aspects

(5 exercises)

- a) Rainfall variability graphs
- b) Rainfall dispersion diagram
- c) Ergograph,&Ogilvie's ergograph
- d) Climatograph

Unit - IV

Socio-Economic & Demographic aspects - at least with 20 administrative units (4 Exercises)

- a) Population distribution (Dot method)
- b) Density map (Choropleth maps)
- c) Nearest neighbour analysis
- d) Traffic flow cartogram

Unit - V

Map projections – Characteristics, use and mathematical Constriction along with outline maps of the following projections (5 Exercises)

- a) Bonne, s projection
- b) Conical projection -two standard parallel
- c) Gall's projection
- d) Mollweide's projection

Note: Record work will comprise of a minimum of 21 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

<u>Practical</u> – Assessed by External 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- पर्मा, जे. पी. : प्रयोगात्मक भूगोल (रस्तोगी पब्लिषर्स, मेरठ)