

M.Phil. / Ph.D. in Geography

Paper-I : Research Methodology

Unit I - Research-meaning, types-objectives and methods – Research in Geography
inter - disciplinary approaches in Geography – Systems approach

Unit II- Selection of Research problem in Geography – Identification of Research
themes - Criteria for selection of research problems Choice and guidelines –
concepts- Laws, methods and theories in Geographical research.

Unit III - Review of earlier research work –Reference of articles, books and other,
published and unpublished sources – Note taking and Bibliography – Internet,
ejournal and ebooks – Hypothesis- Formulation and types –Testing of hypothesis

Unit IV - Research design –Methodology, framework - writing of thesis -
organization of chapters – footnotes - Appendix – Glossary- selected
bibliography- final drafting of thesis – editing-drafting of synopsis, writing
research paper, abstracts.

Unit V - Formulation of research project proposal – Budgeting time schedule –
Research monographs.

BOOKS FOR REFERENCE

- 1.Hart shorne, Richard, perspective on the nature of geography, John Murray,
Londan.
2. David Harvey, Explanations in geography, Arnold Heinemann.
3. Freeman, Hundred years of Geography.
4. Peter Haggett, Geography-A modern synthesis.
5. C.R. Kothari, Research Methodology, methods and techniques.
6. R.P. Misra, Research Methodology, a hand book.

Paper-II : Quantitative and Cartographic Techniques in Geography

Unit I- Geographic data and field techniques: Development of quantitative methods in geography- data- collection of data- Sources and methods- physical- social- cultural and demographic data- field survey-Questionnaire and schedule- Sampling –need for sampling- methods - types – size of sample distribution and confidence limits

Unit II - Measurement of data - levels of measurement –spatial data- Distribution measures-Centro graphic measures – standard distance – Nearest Neighbour technique.

Unit III - Statistical Analysis of data- Correlation and regression analysis – hypothesis testing –contingency tables Chi-square, ‘T ‘and ‘F test’.

Unit IV – Map making – preparation of base map – map compilation and generalization problems-Map Design and Layout – preparation of thematic maps.

Unit V – Compact Application in Geography- data Analysis and mapping – Use of remotely sensed data in geographical analysis and mapping - GIS and GPS in geographical research.

REFERENCES :

1. Monhkose & Wilknsn (19760) maps and diagrams, Mathew London.
2. Peter Toyne, Techniques in human geography.
3. Hemmond R Quantitative Techniques in Geography and introduction.
4. Cole King, Quantitative Geography.
5. Yeates, Introduction to Quantitative analysis in geography.
6. Najma Khan, Quantitative methods in geographical Research.
7. Taylor, Quantitative methods in Geography, Hingtin and Mifflin.

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Paper-III: Urban Geography

Unit I - Nature – scope and development of urban geography – urbanization factors of urban growth – world urbanization, urbanization in India.

Unit II - Urban demography – population density models – age and sex structure – occupational structure – Economic Base- Basic & Non – Basic Function – functional classification.

Unit III - Urban Landuse – types - models – social area analysis –CBD-delimitation – Urban ecology – quality of urban life.

Unit IV - Urban expansion - vertical and horizontal – urban sprawl - rural urban fringe – suburbs- city region-umland demarcation.

Unit V - Hierarchy of urban centers – rank-size rule-Christaller's central place concepts – urban problems-slums-pollution-water supply, transport planning

Reference:

1. Northam RM(1975) Urban Geography, John Wiley Sons, New York .
2. Carter. H (1972) The study of urban geography, Edward Arnold, London .
3. Misra R.B. & K.V. Sundaram (1971) Regional planning and Development, University of Mysore.
4. Gips J.P., Urban Research Methods.
5. Hauser .P.M. The Study of Urbanization.
6. Mandal B.P Urban Geography.
7. Kundu .A. Urban Development and Urban Research in India, Khanna Publications