

**Syllabus for Ph.D Coursework Entrance Examination, 2018**  
**Department of Geography & Applied Geography**  
**University of North Bengal**

**RESEARCH METHODOLOGY**

1. Introduction to Research Methodology: Meaning, objectives, significance and types
2. Data Inventory: Sources of data, types of data
3. Methods of data collection
4. Tables and tabulation
5. Sampling techniques: Purpose, principles and types of sampling

**SUBJECT**

1. **Geomorphology:** Geomorphic Analysis; Geomorphic Threshold; Hill slopes; Rocks and landforms; Dynamics of fluvial processes.
2. **Climatology:** Ocean atmospheric interaction; Climatic change; Consequences of global warming; Applied climatology.
3. **Economic Geography:** Economic regions and regionalisation; Theories of economic development; Agricultural Geography; Transport and Marketing Geography.
4. **Settlement Geography:** Origin and distribution of settlements; Classification of settlements; Settlement Hierarchy.
5. **Bio-Geography and Soil Geography:** Content of Biogeography; Plant Geography; Zoogeography; Patterns of diversity; Environmental hazards: meaning, types and impact; Plant succession; Soil fertility; Soil pollution.
6. **Geographical Thoughts:** Geography during the Ancient and Medieval period; Post-modernism; Recent Trends in Geography since 1950.
7. **Population Geography:** Classical & Modern theories in Population Geography; Population Dynamics; World Population & Development: Population Policy of India.
8. **Geography of India:** Genesis of Indian Monsoon; Forest types, forest products and problems of Indian forestry; India's water resources; Command Area Development Programme in India, Conventional and non-conventional energy sources in India.
9. **Oceanography:** Physical and chemical properties of sea water; Bottom topography of Indian, Pacific and Atlantic Oceans; Ocean deposits; Impact of Humans on the Marine Environment.
10. **Regional Planning and Development:** Regionalization and Regional Planning; Regional Development Theory; Regional Disparity in India; Target group and Target area approach.
11. **Remote Sensing, GIS and Aerial Photo Interpretation:** Interaction of EMR with Earth surface features; Colour cube and grey level, digital numbers and brightness value; Components of Geographical Information Systems; Geographical data in the Computer; Data Inputs, Verification, Storage, and Output generation; Application of air photo in geography; Measurement and corrections of relief and tilt displacement; Measurement of Object height.

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