

## Department of Geography, University of Allahabad

Revised Syllabus for BA / B.Sc. III for Session 2020-21

Paper I: History of Geographical Thought

- Unit-I** Meaning and scope of geography; Changing philosophy of geography; Geography as an inter-disciplinary science; Geography as social science; Explanations in Geography
- Unit-II** Development of Geography in the ancient classical period; Contributions of Greek, Roman, Indian and Chinese scholars; Geography in the dark ages – contributions of Arab geographers; Discoveries and their impacts.
- Unit-III** Development of Geography in the modern classical period; Rise of philosophical and scientific analysis in geography; Contributions of German, French, British and American schools of thought
- Unit-IV** Dichotomies in geography: physical vs human, systematic vs regional etc. Different approaches to the study of geography – areal differentiation, landscape, ecological and locational. Development of geography in the first half of the 20th century.

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Paper II: Earth Dynamic System

- Unit-I** Origin of Continents, Ocean, Basins; Theories of Lothian Green, A. G. Wegener; Plate Tectonic Theory; Isostasy; Volcanism and associated landforms.
- Unit-II** Folding and Faulting; Formation of fold Mountains; Theories of mountain building-Geosynclinal Theory of Kober, Convection current theory of Holmes, Plate Tectonic Theory; Earthquakes and Tsunamis
- Unit-III** Cycle of Erosion by W. M. Davis and W. Penck; Interruption in Normal Cycle of Erosion and Polycyclic Relief; Mass Movement of Rock wastes; Mechanism of Coastal, Periglacial processes and resultant landforms.
- Unit-IV** Global Radiation and Global Warming; General Atmospheric Circulation; Indian Monsoon and Jet Stream; El-Nino phenomena, Southern Oscillation; Tropical and Temperate Cyclones; Theories of Precipitation.

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Paper III: Geography of Population and Settlement  
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- Unit-I** Meaning and Scope of Population Geography; Population processes -Growth and Demographic Transition; Distribution and Density, Pattern of Population; Structure and Composition of Population with special reference to India; Migration-Causes and Types; Population Policy in India.
- Unit-II** Over Population, Under Population; Optimum Population; Population Resource Regions; Population Problems in India; Theories of Malthus, Marx and Rostov
- Unit-III** Meaning and Scope of Settlement Geography; Evolution and types of Settlements; Rural Settlements-Types and Patterns, Size, Spacing and Morphology; Urban Settlements-Types and Patterns, Size, Spacing and Morphology, Classification of Towns.
- Unit-IV** Central Place Theory; Trends of Urbanization in India; Urban Slums and Urban Pollution; Rural-urban Fringe; Problems and Planning of Urban Settlements; Urban Policy in India.

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## Revised Syllabus for BA / B.Sc. III for Session 2020-21 Paper IV: Practical

**Section A** Topographical maps  
**20 Marks** (a) Scales of different topographical maps  
(b) Representation of reliefs: contours - types, intervals, slopes, characteristics and Patterns representation of important landforms by contours and their cross-sections.  
(c) Representation of physical and man-made features by conventional symbols.

### Geological Map

(a) Representation of rock outcrops, bedding planes, dips and strikes, unconformity and faults.  
(b) Drawing of cross sections and determination of dip angles and bed thickness.

**Section B** Analysis of Settlement- mean centre, standard distance, quadrat  
**30 Marks** count method nearest neighbour method.

Analysis of Transport and Drainage network- measurement of length, Transport network. Connectivity, matrix. Drainage network ordering, Bifurcation ration and length ratio and drainage density.

Analysis relief, profiles, areas height diagram, relative relief, slope analysis, altimetric and hypsometric analysis.

Chi-square test ,Student's T test, Variance test

**Record File** Lab Work Based  
**15 Marks**

**Viva-Voce** Lab Work Based  
**10 Marks**