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Geography Syllabus for Uttarakhand State Civil
Services Main Exam-2011

1. GEOGRAPHY PAPER-I

SECTION –A: PHYSICAL GEOGRAPHY

1. **Geomorphology:**

(a) **Structure & Tectonics:** Origin and Structure of the Earth, Earth movements, Plate tectonics and Mountain Building; Isostasy; volcanism and Earthquakes, subaerial denudation, weathering and erosion; Cycle of erosion. Agents of erosion.

(b) **Landform Processes:** Fluvial, Glacial, aeolian, marine and karst. Rejuvenation and Polycyclic landform features; morphogenetic regions and rock types.

2. **Climatology:** Composition and Structure of atmosphere, Insolation and heat Budget; Atmospheric pressure and winds; Moisture and precipitation, Air masses and Fronts; Cyclones-Origin, Movements and associated weather, Classification of world climate:- Koeppen and Thornthwaite.
3. **Oceanography:** Configuration of ocean floor, salinity, ocean currents, Tides; Ocean deposits and coral reefs.
4. **Soil and Vegetation:** Soil-genesis, Classification and world distribution. Soil-vegetation symbiosis, Biotic communities and succession.
5. **Ecosystem:** Concept of Ecosystem, Structure and Functioning of Ecosystem. Types of Ecosystem; Major, Biomes. Man's impact on the ecosystem and global ecological issues.

SECTION –B: HUMAN GEOGRAPHY

1. **Evolution of Geographic Thought:** Nature of Geography, Contributions of Greek, Roman, German, French, British, American, Soviet and Indian Geographers; Changing Paradigms of Man-Environment relationship; Impact of Positivism and Quantitative revolution; Models and systems in Geography; Recent trends in Geographic thought with special reference to radical, behavioural, phenomenological and ecological paradigms.
2. **Human Geography:** Human habitat in major natural regions; Habitat in Uttarakhand, emergence of Man and Races of Mankind; Cultural evolution and stages; Cultural diffusion and major cultural realms. Growth and distribution of population. Demographic Transition and contemporary Population problems.
3. **Settlement Geography:** Concept of settlement Geography; Rural settlement:- Nature, origin, Types and patterns; concept of Urban settlement patterns, Processes and consequences of Urbanisation; classification of Towns; Morphology of Towns; Rural-Urban nexus; Rural Service Centres; Umland and Urban Fringes; Central place theory; Hierarchy of Urban centres.
4. **Economic Geography:** Fundamental concepts; concept of Resource; classification, conservation and Management. Nature and types of Agriculture; Agricultural land use Location theories; world agricultural regions; Major crops; Mineral and Power resources:- Occurrence, Reserves, Utilization and Production Pattern. World Energy crisis. Hydro-electricity in Uttarakhand.
Industries: Theories of Industrial location, Major industrial regions; Major Industries:- Iron & Steel; Paper, Textiles; Petro-chemicals, Automobiles, Ship building; their location patterns.
International Trade: Trade Blocks, Trade routes & Ports. Global trade centres. World Economic Development Patterns. Concept of and approaches to sustainable Development.
5. **Political Geography:** Concept of nation and state; Frontiers, Boundaries and Buffer states; Concept of Heartland and Rimland; Federalism, Contemporary world geopolitical issues.

PAPER- II
GEOGRAPHY OF INDIA

1. **Physical Features:** Geological Structure, Relief and drainage with specific features of Uttarakhand Himalaya. Soil and Natural vegetation; Soil degradation and Deforestation; origin and mechanism of Indian Monsoon; Climatic and Physiographic regions.
2. **Human Features:** Distribution and growth of Population; Structural Characteristics of Population- temporal, regional variations. Regional rural settlement patterns and village morphology; urban settlements; classification of Indian cities; Urbanization and Urban Policy.
3. **Agriculture:** Infrastructure; irrigation power; use of fertilizer and pesticides; Mechanization; Regional characteristics of Agricultural land use; Problems of wastelands and their reclamation; cropping patterns and intensity; Agricultural efficiency and productivity, impact of green revolution, Land Reforms and agrarian problems. Crop combinations and agricultural regionalization; Agricultural Planning and Policies.
4. **Mineral and Power Resources:** Locational patterns, Reserves and Production trends; complementary of minerals. Power resources; coal, petroleum, hydro-power; multipurpose river valley projects and Energy crisis.
5. **Industries:** Industrial development; Small Scale Industries Major Industries-Iron & Steel, Textiles, Paper, cement, Fertilizer, Sugar, Petro-chemicals. Industrial complexes and Regions.
6. **Transport and Trade:** Networks of Railways & roads; Problems and Prospects of civil aviation and water transport; inter-regional commodity flows; international trade; Policy and flow patterns, Major ports and trade centers.
7. **Regional Development and Planning:** Problems of regional development and spatial Planning strategies; Geographic and Planning regions; Planning for metropolitan, tribal, hilly, drought-Prone regions and watershed management; Regional disparities in development and policies in five year plans. Planning for eco-development in Uttarakhand.
8. **Political Economy:** Historical Perspective on unity and diversity; states reorganization; Regional consciousness and national integration, International boundaries and India and related geopolitical Issues. India and the geo-politics of the Indian ocean. India and the SAARC.
9. **Development and Challenges of Uttarakhand State:** Natural Hazards, water resources, Hydro-Power-Development, Tourism, Horticulture, Environmental degradation, Rural Settlements, Rural out migration, Unemployment, transport and Industries, Urbanization; Budget and food deficit.