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Geography Syllabus for IAS Main Exam 2012

GEOGRAPHY PAPER - I PRINCIPLES OF GEOGRAPHY Physical Geography:

1. Geomorphology: Factors controlling landform development; endogenetic and exogenetic forces: Origin and evolution of the earth's crust; Fundamentals of geomagnetism; Physical conditions of the earth's interior; Geosynclines; Continental drift; Isostasy; Plate tectonics; Recent views on mountain building; Vulcanicity; Earthquakes and Tsunamis; Concepts of geomorphic cycles and Landscape development ; Denudation chronology; Channel morphology; Erosion surfaces; Slope development ; Applied Geomorphology : Geohydrology, economic geology and en- 1. Perspectives in Human Geography: vironment.

2. Climatology: Temperature and pressure belts of the world; Heat budget of the earth; bility and instability. Planetary and local masses and fronto genesis, Temperate and world; Human development index. tropical cyclones; Types and distribution 2. Economic Geography; World economic

Temperature and salinity of the oceans; terns of world trade. Heat and salt budgets, Ocean deposits; 3. Population and Settlement Geography: pollution.

sification and distribution of soils; Soil pro- quality of life; Population as social capital.

tion of plants and animals; Problems of deforestation and conservation measures; Social forestry; agro-forestry; Wild life; Major gene pool centres.

5. Environmental Geography: Principle of ecology; Human ecological adaptations; Influence of man on ecology and environment; Global and regional ecological changes and imbalances; Ecosystem their management and conservation; Environmental degradation, management and conservation; Biodiversity and sustainable development; Environmental policy; Environmental hazards and remedial measures; Environmental education and legislation.

Human Geography:

Areal differentiation; regional synthesis; Dichotomy and dualism; Environmentalism; Quantitative revolution and locational Atmospheric circulation; atmospheric sta- analysis; radical, behavioural, human and welfare approaches; Languages, religions winds; Monsoons and jet streams; Air and secularisation; Cultural regions of the

of precipitation; Weather and Climate; development: measurement and problems; Koppen's, Thornthwaite's and Trewartha's World resources and their distribution; Enclassification of world climates; Hydrologi- ergy crisis; the limits to growth; World agrical cycle; Global climatic change and role culture: typology of agricultural regions; agand response of man in climatic changes, ricultural inputs and productivity; Food and Applied climatology and Urban climate. nutrition problems; Food security; famine: 3. Oceanography: Bottom topography of causes, effects and remedies; World industhe Atlantic, Indian and Pacific Oceans: tries: locational patterns and problems: pat-

Waves, currents and tides; Marine re- Growth and distribution of world populasources: biotic, mineral and energy re- tion; demographic attributes; Causes and sources; Coral reefs, coral bleaching; sea- consequences of migration; concepts of level changes; law of the sea and marine over-under-and optimum population; Population theories, world population prob-4. Biogeography: Genesis of soils; Clas- lems and policies, Social well-being and file; Soil erosion, Degradation and conser- Types and patterns of rural settlements; vation; Factors influencing world distribu- Environmental issues in rural settlements;

Hierarchy of urban settlements; Urban morphology: Concepts of primate city and rank-size rule; Functional classification of towns; Sphere of urban influence; Rural urban fringe; Satellite towns; Problems and remedies of urbanization; Sustainable development of cities.

4. Regional Planning: Concept of a region; Types of regions and methods of regionalisation; Growth centres and growth poles; Regional imbalances; regional development strategies; environmental issues in regional planning; Planning for sustainable development.

5. Models, Theories and Laws in Human Geography: Systems analysis in Human geography; Malthusian, Marxian and demographic transition models; Central Place theories of Christaller and Losch:Perroux and Boudeville: Von Thunen's model of agricultural location; Weber's model of industrial location: Ostov's model of stages of growth. Heartland and Rimland theories; Laws of international boundaries and frontiers.

PAPER - II GEOGRAPHY OF INDIA

1. Physical Setting: Space relationship of India with neighboring countries; Structure and relief; Drainage system and watersheds; Physiographic regions; Mechanism of Indian monsoons and rainfall patterns. Tropical cyclones and western disturbances; Floods and droughts; Climatic regions; Natural vegetation; Soil types and their distributions.

2. Resources: Land, surface and ground water, energy, minerals, biotic and marine resources: Forest and wild life resources and their conservation; Energy crisis.

3. Agriculture: Infrastructure: irrigation, seeds, fertilizers, power; Institutional factors: land holdings, land tenure and land reforms; Cropping pattern, agricultural productivity, agricultural intensity, crop combination, land capability; Agro and socialforestry; Green revolution and its socio- 8. Regional Development and Planning: zones; agro- ecological regions.

Zones; Tourism including eco -tourism.

Transport, Communication and Trade: dian Ocean realm. Road, railway, waterway, airway and pipe- 10. Contemporary Issues: Ecological isin communication and information technology and their impacts on economy and society; Indian space programme.

tributes: sex-ratio, age structure, literacy and Indian economy. rate, work-force, dependency ratio, longevity; migration (inter-regional, intra- regional and international) and associated prob- nent to subjects covered by this paper. lems; Population problems and policies; Health indicators.

7. Settlements: Types, patterns and morphology of rural settlements; Urban developments: Morphology of Indian cities; Functional classification of Indian cities; Conurbations and metropolitan regions; urban sprawl; Slums and associated problems; town planning; Problems of urbanization and remedies.

economic and ecological implications; Sig- Experience of regional planning in India; nificance of dry farming; Livestock re- Five Year Plans; Integrated rural developsources and white revolution; aqua - cul- ment programmes; Panchayati Raj and ture; sericulture, apiculture and poultry; ag- decentralised planning; Command area ricultural regionalisation; agro-climatic development; Watershed management; Planning for backward area, desert, 4. Industry: Evolution of industries; drought prone, hill, tribal area develop-Locational factors of cotton, jute, textile, iron ment; multi-level planning; Regional planand steel, aluminium, fertilizer, paper, ning and development of island territories. chemical and pharmaceutical, automobile, 9. Political Aspects: Geographical basis cottage and agro-based industries; Indus- of Indian federalism; State reorganisation; trial houses and complexes including pub- Emergence of new states; Regional conlic sector undertakings; Industrial regionali- sciousness and inter state issues; internasation; New industrial policies; Multination- tional boundary of India and related issues; als and liberalization; Special Economic Cross border terrorism; India's role in world affairs; Geopolitics of South Asia and In-

line networks and their complementary sues: Environmental hazards: landslides, roles in regional development; Growing earthquakes, Tsunamis, floods and importance of ports on national and for- droughts, epidemics; Issues relating to eign trade; Trade balance; Trade Policy; environmental pollution; Changes in pat-Export processing zones; Developments terns of land use; Principles of environmental impact assessment and environmental management; Population explosion and food security; Environmental degradation; 6. Cultural Setting: Historical Perspective Deforestation, desertification and soil eroof Indian Society; Racial, linguistic and sion; Problems of agrarian and industrial ethnic diversities; religious minorities; ma- unrest; Regional disparities in economic jor tribes, tribal areas and their problems; development; Concept of sustainable cultural regions; Growth, distribution and growth and development; Environmental density of population; Demographic at- awareness; Linkage of rivers; Globalisation

> NOTE: Candidates will be required to answer one compulsory map question perti-