

Book List

GEOGRAPHY MAINS

PAPER - I

PRINCIPLE OF PHYSICAL 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 environment.

Books /Sources

NCERT XI Std Physical Geography

Physical Geography – Strahler & Strahler & Savinder Singh

- 2. Climatology:** Temperature and pressure belts of the world; Heat budget of the earth; Atmospheric circulation; atmospheric stability and instability. Planetary and local winds; Monsoons and jet streams; Air masses and fronto genesis, Temperate and tropical cyclones; Types and distribution of precipitation; Weather and Climate; Koppen's, Thornthwaite's and Trewartha's classification of world climates; Hydrological cycle; Global climatic change and role and response of man in climatic changes, Applied climatology and Urban climate.

Books /Sources

NCERT XI Std Physical Geography

Physical Geography - Strahler & Strahler & Savinder Singh

- 3. Oceanography:** Bottom topography of the Atlantic, Indian and Pacific Oceans; Temperature and salinity of the oceans; Heat and salt budgets, Ocean deposits; Waves, currents and tides; Marine resources: biotic, mineral and energy resources; Coral reefs, coral bleaching; sea-level changes; law of the sea and marine pollution.

Books /Sources

NCERT XI Std Physical Geography

Oceanography - Sharma & Vatal

Physical Geography - Savinder Singh

- 4. Biogeography:** Genesis of soils; Classification and distribution of soils; Soil profile; Soil erosion, Degradation and conservation; Factors influencing world distribution of plants and animals; Problems of deforestation and conservation measures; Social forestry; agro-forestry;.

Books /Sources

NCERT XI, XII Std Biology (Ch. 13 -16)

Rupa Made Simple - Part I

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.

Books /Sources

NCERT IX Std + UNEP Reports + IPCC Reports,

Terra Green / Down to Earth Magazines

HUMAN GEOGRAPHY

1. Perspectives in Human Geography: Areal differentiation; regional synthesis; Dichotomy and dualism; Environmentalism; Quantitative revolution and locational analysis; radical, behavioral, human and welfare approaches; Languages, religions and secularisation; Cultural regions of the world; Human development index.

Books /Sources

Fundamental of Geographical Thought - S.Adhikari

Geographical Thought - R.D.Dikshit or Majid Hussain

HDI Report

2. Economic Geography: World economic development: measurement and problems; World resources and their distribution; Energy crisis; the limits to growth; World agriculture: typology of agricultural regions; agricultural inputs and productivity; Food and nutrition problems; Food security; famine: causes, effects and remedies; World industries: locational patterns and problems; patterns of world trade.

Books /Sources

NCERT XI Std

Economic Geography - Leon & Morgan

Economic Geography - Hartshorne

Rupa Made Simple Part -II

Current Sources : News paper & FAO Report, World Development Report

3. Population and Settlement Geography: Growth and distribution of world population; demographic attributes; Causes and consequences of migration; concepts of over-under-and

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optimum population; Population theories, world population problems and policies, Social well-being and quality of life; Population as social capital. Types and patterns of rural settlements; 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.

Books /Sources

NCERT XI Std
Human Geography - Majid Hussain
Population Geography - R C Chandna

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.

Books /Sources

Regional Planning in India - Chand & Puri
Yojana Magazine & Kurukshetra

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.

Books /Sources

Rupa Made Simple Part - II
Political Geography - S. Adhikari
Human Geography - Majid Hussain

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.

Books /Sources

NCERT XI Std
Geography of India - Khullar or Savinder Singh ,

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

Books /Sources

Geography of India - Khullar , Annual Reports of Ministry of Water resource, coal, petroleum & Natural gas, Environment forest & Climate change, India Years Books & PIB

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 social-forestry; Green revolution and its socio- economic and ecological implications; Significance of dry farming; Livestock resources and white revolution; aqua - culture; sericulture, apiculture and poultry; agricultural regionalisation; agro-climatic zones; agro- ecological regions.

Books /Sources

India Year Book , Economic Survey, NITI Ayog, NCERT XII Std , PIB

4. **Industry:** Evolution of industries; Locational factors of cotton, jute, textile, iron and steel, aluminium, fertilizer, paper, chemical and pharmaceutical, automobile, cottage and agro - based industries; Industrial houses and complexes including public sector undertakings; Industrial regionalisation; New industrial policies; Multinationals and liberalization; Special Economic Zones; Tourism including eco -tourism.

Books /Sources

India Year Book , Economic Survey, NITI Ayog, NCERT XII Std , PIB

5. **Transport, Communication and Trade:** Road, railway, waterway, airway and pipeline networks and their complementary roles in regional development; Growing importance of ports on national and foreign trade; Trade balance; Trade Policy; Export processing zones; Developments in communication and information technology and their impacts on economy and society; Indian space programme.

Books /Sources

India Year Book , , Economic Survey, NITI Ayog, NCERT XII Std , PIB

6. **Cultural Setting:** Historical Perspective of Indian Society; Racial, linguistic and ethnic diversities; religious minorities; major tribes, tribal areas and their problems; cultural regions; Growth, distribution and density of population; Demographic attributes: sex-ratio, age structure, literacy rate, work-force, dependency ratio, longevity; migration (inter-regional, intra- regional and international) and associated problems; Population problems and policies; Health indicators.

Books /Sources

Census Report 2011

Contemporary Human Geography - Mona Domash

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.

Books /Sources

Urbanization and Urban Systems in India - R Ramachandran

Human Geography - Majid Hussain

8. **Regional Development and Planning:** Experience of regional planning in India; Five Year Plans; Integrated rural development programmes; Panchayati Raj and decentralised planning; Command area development; Watershed management; Planning for backward area, desert, drought prone, hill, tribal area development; multi-level planning; Regional planning and development of island territories.

Books /Sources

Books /Sources

NITI Ayog Report , PIB

Yojana & Kurukshetra Magazine (Publication Division)

9. **Political Aspects:** Geographical basis of Indian federalism; State reorganisation; Emergence of new states; Regional consciousness and inter state issues; international boundary of India and related issues; Cross border terrorism; India's role in world affairs; Geopolitics of South Asia and Indian Ocean realm.

Books /Sources

Political Geography - R.D Dixit

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10. **Contemporary Issues:** Ecological issues: Environmental hazards: landslides, earthquakes, Tsunamis, floods and droughts, epidemics; Issues relating to environmental pollution; Changes in patterns of land use; Principles of environmental impact assessment and environmental management; Population explosion and food security; Environmental degradation; Deforestation, desertification and soil erosion; Problems of agrarian and industrial unrest; Regional disparities in economic development; Concept of sustainable growth and development; Environmental awareness; Linkage of rivers; Globalisation and Indian economy.

Books /Sources

PIB, News Paper & all suggest Magazines.

Atlas: Orient Black Swan or Oxford School atlas for India

Dictionary: Physical & Human Geography: **Oxford** (A Dictionary of Geography)

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