Part I : Conceptual Foundations

Chapter 1 : Resource Geography : An Introduction

Growth of Resource Geography; Need for the study of Resource Geography; Approaches to the study of Resource Geography; Relationship of Resource Geography with other Sciences; Scope of Resource Geography.

Chapter 2 : Resources : Concepts, Process, Classification

Meaning of Resource; Concepts of Resources; Resource Cognition and Value; Resources, Resistances, and Neutral Stuffs; Stocks, Resources, Reserves and Potential Resource; Functional or Operational Theory of Resources; Concept of Resources in Recent Geographical Literature; Concept of Resource Adequacy; Concept of Resource Scarcity or Limits of Growth; Resource Process; Natural Resources : Fixed or Changing ? Nature and Resource's; Man and Resources; The Role of Technology in Resource Development; Classification of Resources; Resource Ecology.

Chapter 3 : Conservation and Management of Natural Resources

Sustainability of Resources; Resource Management; Resource Appraisal; Resource Evaluation; Resource Management and Conservation; Perception and Choices; Concept of Conservation; Different Views of Resource Conservation and management; Nature Centred View, Human Centred View; Aims of Conservation; Approaches to Natural Resource Management; Resource Use Policy; Planning for Conservation of Natural Resources; Resource Development; Sustainable Resource Use; Natural Hazards and Risk Management; Types of Natural Hazards and Disasters; Hazard and Risk; Hazard Analysis and Assessment; Planning with Hazards and Risk.

Part II : Resources and Their Exploitation

Chapter 4 : Air Resources

Air Pollution; Sources of Air Pollution; Specific Phenomena Related with Air Pollution; Global Warming; International Efforts on Climate Change; Acid Rains; An Invisible Threat; Ozone Depletion; Photochemical Smog; Haze; Factors Affecting Air Pollution Level; Effects of Air Pollution, Measures for Controlling Air Pollution; Indoor Air Pollution; Control of Indoor Air Pollution.

Chapter 5 : Water Resources

Underground Water Resources; Surface Water Resources; Inland Water Resources; Oceanic Water Resources; Utilization of Oceans by Man; Water Related Problems : Availability of Water; Water Scenario in India; Wetlands; Water Quality Standards in India.

Chapter 6 : Marine Resources

Physical Properties; Ocean Zonation; Habitat and Biological Productivity; Ocean Resources : Fisheries; Minerals from Seabed : Energy Resources : Deep Seabed Minerals.

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Chapter 7 : Fisheries

Types of Fisheries; Commercial Freshwater Fisheries; Commercial Coastal Fisheries; Open-Sea Fisheries; Geographical Factor for Commercial Fishing; Major Fishing Areas; Major Fishing Nations of the World; Whaling; Aquaculture : Types of Aquaculture.

Chapter 8 : Soil Resources

Characteristics of Soil; Soil Formation (Pedogenesis); Processes in Soil Formation, Characteristic of the Climatic Type; Soil Profile; Soil Classification; Diagnostic Horizons; Soil Orders; Land use; Economic Planning of Soils; Problems Associated with Conventional Agriculture.

Chapter 9 : Forest Resources

Types of Natural Vegetation; Forest Resources; Significance of Forest Resources; Factors of Forest Development; Extent of Forest Cover; Classification of Forests; Grasslands; Desert Vegetation; Tundra Vegetation; Economic Utilization of Forests; Minor Forest Produce; Deforestation : Deforestation in Tropical Forests; Deforestation in Temperate Region; Rates and Extent of Deforestation; Causes/Factors of Deforestation : Immediate, Indirect, Underlying Causes.

Chapter 10 : Livestock Resources

Livestock Products : Characteristics, Producing Areas, International Trade of Milk, Meat, Wool.

Chapter 11 : Biological Resources

Bio-diversity : Distribution of Bio-diversity; Wetlands in India, India as a Mega-Diversity Nation; Extinction of Species; Causes of Extinction of Species; Threatened Species.

Chapter 12 : Mineral Resources

Types of Minerals; Distribution of Minerals and Mining Areas; Metallic Minerals : Ferrous Metals : Iron Ore; Ferro-Alloys : Manganese, Chromium, Nickel, Tungsten, Antimony; Non-Ferrous Metals : Copper, Bauxite and Aluminium, Zinc, Lead, Tin; Precious Metals : Gold, Silver, Platinum; Mineral Chemicals : Mica, Potash, Phosphate, Nitrates, Sulphur.

Chapter 13 : Energy Resources

Classification of Energy, Conventional Energy, General Trends of Energy Production and Consumption; Coal : Nature Origin, Kinds, Coal-fields and Production; Petroleum : Nature and Properties of Petroleum, Origin and Recovery, Exploration, Petroleum Refining, Producing Areas; Consumption of Petroleum, International Trade; OPEC and its Role in Oil Trade; Energy Crisis; Natural Gas : Reserves, Production; Hydroelectricity; Advantages, Ideal Conditions for Generation of Hydro-electricity; Distribution of Potential Hydro-Power, Hydroelectric Power Generation; Atomic (Nuclear) Energy : Atomic Minerals, World Distribution of Uranium, Production of Uranium; Thorium, Nuclear Energy : The Energy of Future; Alternative (Non-Conventional) Sources of Energy : Solar Energy, Wind Energy, Geothermal Power, Tidal Energy, Wave Energy, Biomass Energy.

Chapter 14 : Unrealized Resources : Solid Waste and Hazardous Waste

Solid Waste; Disposal of Solid Waste; Problems Associated with Solid Waste Disposal; Solid Waste Management, New Technologies of Waste Disposal Under Trial; Solid Waste Management in India; Sustainable Management of Solid Waste; Integrated Solid Waste Management System; Future Management of Unrealized Resources; Toxic and Hazardous Substances; Management of Hazardous Wastes; Disposal of Hazardous Waste; Hazardous Waste Trade.

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Chapter 15 : Human Resources

Concept of Human Resources; Population Distribution; Factors of Population Distribution; World Population Distribution : Continent-wise Distribution of Population; Density of Population; Pattern of Population Density in the World; Population Increase in the World; Determinants of Population Growth; Characteristics of Population : Age Composition, Population Pyramids, Sex Composition; Urbanization; Impact of Urbanization; Literacy; Theories of Population Growth; Malthusian, Marxian, Demographic Transition Theory; Optimum Population; Over Population; Under Population; Population Explosion; Population Problems : Problems of Developing Countries, Problems of Developed Countries, Population Dilemma of Europe; Population Policies : Population Policy of China, Population Policy of India; Carrying Capacity of the Environment; Human Resource Development; Aggregate Measures of Development and Well-being; Population and Resources Regions.

Chapter 16 : Cultural Resources

Significance of Cultural Resources; Threats to Cultural Resources; Preservation of Cultural Resources; International Efforts for Preservation of Cultural Resources.

Chapter 17 : Agriculture : Location, Systems, Regions

Factors Affecting Agriculture; Diversity of Agriculture; Location of Agriculture : Von Thünen's Theory of Agriculture Location Assumptions, Principles, Model Criticism, Relevance, Application of the Model in India, Sinclair's Theory, Olof Jonasson's Theory; Agricultural Systems; Schemes of Agricultural Regionalization; Whittlesey's Classification : Merits, Limitations; Classification of World Agriculture; Agricultural Regions of : USA (erstwhile) USSR, China, France, Turkey.

Chapter 18 : Agricultural Resources : Crops

Food Crops : Wheat, Rice, Maize (Corn), Barley, Oats, Rye; Beverages : Tea, Coffee, Cacao (Cocoa), Tobacco; Industrial Crops : Fibre Crops-Cotton, Jute, Substitutes of Jute; Raw Silk; Natural Rubber, Sugarcane, Sugar Beet (Conditions of Growth, Cultivation, Production), Sugar Industry.

Chapter 19 : Manufacturing Industries : Location

Approaches to the Problem of Location of Industries; Determinants of Location of Industries; Industrial Location Theories : Weber's Theory, Tord Plander's Theory, Edgar Hoover's Theory, August Losch's Theory, D.M. Smith's Theory, Harold Hotelling's Theory, Allen Pred's Theory; Structural Approach.

Chapter 20 : Industrial Resources : Products

Iron and Steel Industry; Textile Industry: Cotton Textile Industry, Woollen Textile Industry, Silk Textile Industry; Synthetic (Artificial) Silk Industry; Engineering Industries : Machine Tools and Machines, Industrial Machinery, Agricultural machinery; Manufacturing of Transport Equipment : Automobile Industry, Railway Car and Locomotive Industry, Ship-Building, Aircraft Industry; Chemical Industry: Production of Acids, Production of Alkalies, Fertilizer Industry : Nitrogen Fertilizers, Phosphate Fertilizers, Polash Fertilizers; Synthetic Rubber Industry; Pulp and Paper Industry, Cement Industry; Petroleum Refining Industry.

Part III : Resource Regions, Conservation of Natural Resources, Environment

Chapter 21 : Resource Regions

Classification of Resource Regions of the World; Regions of Limited Possibilities of Resource

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Development; Regions of Retarded Development; Regions of High Development of Resources; Resource Regions of India.

Chapter 22: Conservation and Management of Important Natural Resources 526-579

Conservation of Soils; Management of Water Resources; Wetlands Management; Management of Marine Resources, Fisheries Conservation; Management of Forest Resources; Rangeland Management; Conservation of Mineral Resources; Conservation of Energy Resources; Management of Ecological Resources, Wildlife Management in India.

Chapter 23 : Resources and Environment

Processes of Environmental Degradation; Causes of Environmental Degradation; global Environmental Issues : Global Warming; Acid Rain, Ozone Depletion, Deforestation, Desertification, Soil Erosion, Water Supply and Water Quality, Garbage Heaps and Toxic Wastes; Energy Crisis, Population Growth and Food Problem.

Objective Type Important Questions

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