

CONTENTS

WORLD GEOGRAPHY

Chapter 1. Geography as a Discipline 1-3

- Geography 1
- Branches of Geography 2

Chapter 2. The Universe 4-9

- Universe 4
- Our Solar System 6

Chapter 3. The Earth 10-17

- Origin of the Earth 10
- Evolution of the Earth 11
- Latitude and Longitude 13
- Motions of the Earth 15

Chapter 4. Geomorphology 18-44

- Interior of the Earth 18
- Earthquake 20
- Volcanoes 22
- Rocks 25
- Major Theories for the Evolution of Landforms 27
- Movements of the Indian Plate 30
- Geomorphic Processes 31
- Earth Movements 31
- Landforms 36
- Mountains 42
- Plains 43
- Islands 44

Chapter 5. Climatology 45-68

- Atmosphere 45
- Insolation and Temperature 48
- Heat Budget of the Earth 50
- Wind 54
- Jet Streams 58
- Cyclone 58
- Thunderstorms and Tornadoes 59
- Water in the Atmosphere 60
- Humidity 60

- Evaporation 60
- Condensation 61
- Clouds 62
- Precipitation 63
- Air Masses 64
- Fronts 64
- Koeppen's Scheme of Classification of Climate 65

Chapter 6. Oceanography 69-89

- Water and Its Distribution 69
- Oceans and Seas 69
- Oceans of the World 71
- Oceanic Circulation and Ocean Currents 72
- Salinity of the Ocean 75
- Ocean Density 76
- Ocean Temperature 76
- Ocean Tides 79
- Ocean Deposits 80
- Coral Reefs 82
- Marine Resources 83
- Maritime Zone 85
- Lakes 87
- Wetlands 88

Chapter 7. Soil and Natural Vegetation 90-96

- Soil 90
- Natural Vegetation 94

Chapter 8. Agriculture and Animal Husbandry 97-106

- Hunting and Gathering 97
- Agriculture 97
- Major Crops of the World 100
- Animal Husbandry 105

Chapter 9. Mineral Resources 107-112

- Minerals 107
- Types of Minerals 108
- Conservation of Minerals 112

Chapter 10. Energy Resources 113-118

- Classification of Energy Resources 113
- Conventional Sources 113
- Non- Conventional Sources of Energy 116
- Nuclear or Atomic Energy 117

Chapter 11. Industries 119-130

- Manufacturing 119
- Classification of Manufacturing Industries 121
- Industrial System 122
- Industrial Regions 122
- Iron and Steel Industry 124

Chapter 12. Transport and Communication 131-138

- Transport 131
- Communication 137

Chapter 13. Population and Settlement 139-152

- World Population 139
- Trends in Population Growth 142
- Demographic Transition 143
- Human Development 145
- Settlement 147
- Human Race 150

Chapter 14. Continents 153-175

- Asia 153
- Africa 158
- Australia 161
- North America 163
- South America 167
- Europe 170
- Antarctica 173

Chapter 15. Map Studies 176-179

- Map 176
- History of Map Making 176
- Types of Maps 177
- Uses of Maps 178
- Essentials of Map Making 178

INDIAN GEOGRAPHY

Chapter 16. Location and Structure of India 180-183

- Geographical Location 180

- India and Its Neighbourhood 181
- India and the World 183

Chapter 17. Geological History and Physiography of India 184-194

- Geological History of India 184
- Geological Aspects of India 184
- Physical Divisions of India 186

Chapter 18. Drainage System of India 195-203

- Types of Drainage Pattern 195
- Classification of Drainage Systems of India 196
- Drainage System of India 197
- Lakes 202

Chapter 19. Climate in India 204-213

- Climate and Weather 204
- Climate of India 204
- Indian Monsoon 207
- Nature of Indian Monsoon 207
- Seasons 211

Chapter 20. Natural Vegetation and Soil in India 214-229

- Natural Vegetation 214
- Types and Distribution of Forest 219
- Forest Conservation 219
- Community and Conservation 221
- Soil 221

Chapter 21. Natural Resources of India 230-241

- Natural Resources 230
- Land Resource in India 231
- Water Resource 235

Chapter 22. Indian Agriculture and Irrigation 242-259

- Agriculture 242
- Major Crops Grown in India 244
- Animal Husbandry/Cattle Rearing/Livestock Farming 254
- Irrigation 255

Chapter 23. Energy and Mineral Resources in India 260-270

- Mineral Resources 260
- Energy Resources 264
- Conservation of Resources 270

Chapter 24. Transport and Communication in India 271-284

- Transport 271
- Land Transport 271
 - 1. Road Transport in India 271
 - 2. Indian Railways 274
 - 3. Ports and Waterways 277
 - 4. Pipelines 280
 - 5. Airways 281
- Communication 283

Chapter 25. Industries in India 285-299

- Major Industries 287
- Industrial Regions in India 296

Chapter 26. Population and Human Settlement 300-312

- Human Settlement 300
- Population 304
- Demographic Composition 306
- Migration 309
- Tribes of India 310

ENVIRONMENT AND ECOLOGY

Chapter 27. Environment 313-315

- Types of Environment 313
- Parts of Environment 313
- Human Impact on Environment 315
- Impact of Environment on Human 315

Chapter 28. Ecology, Ecosystem and Biome 316-327

- Ecology 316
- Ecosystem 317
- Trophic Level 322
- Food Chain 322
- Food Web 323
- Ecological Niche 323
- Biogeochemical Cycles 323
- Bioindicators 324
- Ecological Succession 324
- Biomes 326
- Inter-species Interactions 327

Chapter 29. Biodiversity 328-334

- Meaning of Biodiversity 328
- Geographical Biodiversity 330

- Biodiversity Hotspots 332
- Biodiversity Conservation 333

Chapter 30. Biosphere Reserves, National Parks and Wildlife Sanctuaries 335-340

- National Park 335
- Wildlife Sanctuary 335
- Biosphere Reserves 335
- Wildlife Conservation Projects 337
- Ramsar Convention for Wetland Conservation 339

Chapter 31. Climate Change, Greenhouse Effect and Ozone Depletion 341-347

- Climate Change 341
- Global Warming 342
- Greenhouse Effect 346
- Ozone Layer Depletion 346
- Acid Rain 347

Chapter 32. Environmental Issues 348-353

- Environmental Pollution 348
- Types of Pollution 348
- Soil Erosion and Desertification 352
- Strategies to Control Environmental Pollution 353
- International Efforts to Control Environment Pollution 353

Chapter 33. Sustainable Development 354-357

- Meaning of Sustainable Development 354
- Objectives of Sustainable Development 354
- Sustainable Development Goals 356

Chapter 34. Disaster Management 358-365

- Disaster 358
- Natural Disasters in India 358
- Man-Made Disasters 364
- Disaster Management in India 364
- Government Initiatives for Disaster Management 364

• APPENDIX 366-378
