

Marching Towards THE TARGET

Solved Paper (2024)	1-15
Solved Paper (2023)	16-30
Unsolved Paper (2022)	31-39
Unsolved Paper (2021)	40-48

History of India and Indian National Movement

Ancient History

Sources of Ancient Indian History

The Nomenclature of India	1-3
Historical Sources	1-3
Archaeological Sources	1-3
Literary Sources	1-5
Accounts of Foreign Historians and Travellers	1-7

The Pre-Historic Age

Stone Age	1-9
Palaeolithic or Old Stone Age	1-9
Mesolithic or Middle Stone Age	1-9
Neolithic or New Stone Age	1-10
The Chalcolithic Age	1-11
Megalith Culture or Iron Age	1-12

Indus Valley Civilisation

The Discovery	1-12
The Geographical Extent	1-12
Important Harappan Sites	1-13
Major Characteristics of Harappan Sites	1-15
Social Life	1-16
Political Life	1-16
Economic Life	1-16
Religious Life	1-18
Art and Architecture	1-18
Decline and End of the Harappan Civilisation	1-19
Contribution of Indus Valley Civilisation	1-19

The Vedic Age

The Aryans	1-20
Early Vedic Age (1500-1000 BC)	1-20
Later Vedic Age (1000-600 BC)	1-23
Literature of the Vedic Age: Vedas	1-26

Pre-Mauryan Age: The Rise of Jainism and Buddhism

Emergence of New Religious Sects	1-27
Jainism	1-27
Doctrines of Jainism	1-28
Philosophy of Jainism	1-29
Sects of Jainism	1-29
Spread of Jainism	1-30
Decline of Jainism	1-31
Buddhism	1-31
Doctrines of Buddhism	1-31
Sects of Buddhism	1-32
The Buddhist Literature	1-34
The Decline of Buddhism	1-36
Other Heterodox Sects	1-36

Mahajanapadas

Emergence of the Mahajanapadas	1-37
The Republics of the 6th Century	1-39
The Pre-Mauryan Economic System	1-40
The Pre-Mauryan Social System	1-41
Iranian or Persian Invasion	1-41
Alexander's Invasion (The Greek Invasion)	1-41

The Mauryan Empire

Origin and Sources of the Mauryan Empire	1-41
Mauryan Rulers	1-43
Chandragupta Maurya (321-298 BC)	1-43
Bindusara (298-273 BC)	1-43
Ashoka (273-232 BC)	1-43
The Later Mauryas	1-45
The Mauryan Administration	1-45
Art and Architecture	1-48
Decline of the Mauryan Empire	1-48

Post-Mauryan Age

Northern and Eastern India	1-49
The Shunga Dynasty (185-75 BC)	1-49
The Kanva Dynasty (75-30 BC)	1-49
Chedi Dynasty of Kalinga Chetas (Chedis)	1-49
Deccan and Central India	1-50
The Satavahana Dynasty (230 BC-220 AD)	1-50
Invasion from Central Asia	1-50
Indo-Greeks	1-50
The Shakas (90 BC-100 AD)	1-50
The Parthians (247 BC-224 AD)	1-51
The Kushanas (45-73 AD)	1-51
Impact of Central Asian Contact	1-51
Economy in the Post-Mauryan Age	1-52
Society in the Post-Mauryan Age	1-52
Development of Art (200 BC-300 AD)	1-52
Science and Technology	1-53
Geographical Discoveries in Post-Mauryan Period	1-53

South India

The Sangam Age	1-54
Sangam Age Sources	1-54
The Early Kingdoms	1-54
Sangam Administration	1-55
The Vakatakas	1-58
The Chalukyas (543-753 AD)	1-58
The Imperial Cholas	1-60
The Cheras	1-61

The Gupta Empire (320-550 AD)

Rise of the Guptas	1-62
Sources of Gupta Rule	1-62
The Dynastic History of Guptas	1-62
The Gupta Administration	1-64
Economy in Gupta Age	1-65
Art and Architecture	1-66
Developments in Science and Technology	1-67
Decline of the Guptas	1-68

Post-Gupta Era/Early Medieval

North India (The Hunas, The Maukharis, The Maitrakas, The Gaudas, The Pushyabhutis)	1-68
The Harshavardhana	1-69
The Rashtrakutas in Deccan	1-70
The Palas of Bengal	1-71
The Senas of Bengal	1-72
The Rajputs in Northern India	1-73

Practice Questions: Topicwise Questions, UPSC Prelims

Questions (2024-2016), UPSC Mains

Questions (2023-2015)	1-76 — 1-88
-----------------------	-------------

Medieval History

Arrival of Arabs and Turks in India

Arab Conquest of the Sindh	1-89
The Turko- Islam Ghaznavid Kingdom	1-90
Mohammed of Ghur (1175-1206)	1-91

The Delhi Sultanate

Foundation of the Muslim State	1-91
The Slave Dynasty (1206-1290 AD)	1-92
The Khilji Dynasty (1290-1320 AD)	1-93
The Tughlaq Dynasty (1320-1414 AD)	1-96
The Sayyid Dynasty (1414-1451 AD)	1-98
The Lodhi Dynasty (1451-1526 AD)	1-98
Administration in the Sultanate Period	1-99
Economy in the Sultanate Period	1-100
Social life	1-101
Architectural Features of the Sultanate Period	1-102

The Emergence of Provincial Kingdoms

Bengal	1-103
Assam or Kamarupa	1-103
Orissa	1-103
Kashmir	1-104
Gujarat	1-104
Malwa	1-104
Jaunpur	1-105
Mewar	1-105
Marwar	1-105
Amber or Amer	1-105

The Vijayanagara and Bahmani Empire

Origin of the Empire	1-105
Sangama Dynasty (1336-1485 AD)	1-106
The Saluva Dynasty (1485-1505 AD)	1-107
The Tuluva Dynasty (1505-1570 AD)	1-107
The Aravidu Dynasty (1570-1652 AD)	1-108
Vijayanagara Society	1-109
Bahmani Kingdom	1-110
Famous Rulers of Bahmani Kingdom	1-110
Art and Architecture	1-111

Bhakti and Sufi Movements

Bhakti Movement	1-112
Nirguna Saints	1-114
Saguna Saints	1-114
Maharashtra Saints	1-114
Sufism in India	1-115
Important Sufi Saints	1-117

The Mughal Empire

Mughal Rule	1-119
Babur (1526-30 AD)	1-119
Humayun (1530-56 AD)	1-120
Afghan Interruption (Rise of Sher Shah Suri)	1-120
Restoration of Humayun	1-121
Akbar (1556-1605 AD)	1-122
Jahangir (1605-27 AD)	1-124
Shah Jahan (1627-58 AD)	1-125
Aurangzeb (1658-1707 AD)	1-126
Mughal Administration	1-128
Classification of Society	1-132
Military Organisation of the Mughals	1-133

The Maratha Empire

The Marathas	1-134
Shivaji (1630 AD)	1-134
The Successors of Shivaji	1-135
Maratha Administration	1-136
Maratha Power Under the Peshwas	1-137
Administration Under the Peshwas	1-138
Maratha Confederacy	1-138

Practice Questions: Topicwise Questions, UPSC Prelims

Questions (2024-2016), UPSC Mains

Questions (2023-2015) 1-139 — 1-148

Modern History

Later Mughals

Later Mughals	1-149
Causes for the Decline of the Mughal Empire	1-150
Rise of Autonomous States	1-151
Social and Economic Conditions in the 18th Century	1-154
Life in the Early 18th Century	1-154

European Penetration and The British Conquest of India

The Advent of the Europeans	1-155
The Portuguese	1-155
The English	1-156
The Dutch	1-158
The French	1-158
The British Occupancy of Bengal	1-160
The Nawabs of Bengal	1-161
Battle of Buxar (22nd October, 1764)	1-161
Anglo-Mysore Conflict	1-162
The Anglo-Maratha Wars	1-164
The Sikhs	1-165
Conflict with Neighbouring States	1-166

The British Administrative Structure and Economic Policies

The Structure of the Government	1-167
Economic Colonialism and British Rule	1-170

Different Dimensions of Exploitation During British Rule 1-171

Transport and Communication in India 1-172

Peasant and Tribal Movements

Peasant Rebellions and Movements	1-172
Peasant Uprisings	1-172
Tribal Rebellions	1-177

Labour Movements in India

Organisations Related to Labour Movements	1-180
Unity Among Trade Unions	1-181
Post War Period	1-181

Socio-Religious Reform Movements in India

Context of Reform Movements	1-181
Causes for Socio-Religious Reform Movements	1-182
Reforms and their Leaders	1-183
The Brahmo Samaj	1-183
The Young Bengal Movement	1-184
The Prarthana Samaj	1-184
The Arya Samaj	1-184
Other Societies	1-185
Other Significant Hindu Reform Movements	1-186
Reform Movements among Muslims	1-187
Sikh Reform Movements	1-188

Growth of Press and Education in India

Press Laws and Regulations in British India	1-190
Development After Independence	1-191
Introduction of Western Education in India	1-192
Development of Modern Education	1-192
Developments After Independence	1-194

The Revolt of 1857

Causes of the Revolt	1-195
Outside Influence on the Revolt of 1857	1-196
Causes of the Failure of the Revolt	1-198
Impact of the Revolt/Mutiny	1-198
Significance of the Revolt	1-199

Struggle for Independence First Phase (1885-1915)

Rise and Growth of Nationalism	1-200
Formation of Indian National Congress (INC), 1885	1-203
Moderates and the Era of Early Nationalists (1885-1905)	1-205
Rise of Extremism in Indian Politics	1-206
Partition of Bengal, 1905	1-208
Swadeshi Movement, 1905	1-209
Surat Split, 1907	1-210
Revolutionary Activities (First Phase)	1-211
Ghadar Party (1913)	1-211

Struggle for Independence Second Phase (1915-1935)

Lucknow Pact, 1916	1-212
The Gandhian Era in India	1-214
The Impact of World War I	1-215

Jallianwala Bagh Massacre, 1919	1-216	Religion and Philosophy	
Khilafat Movement, 1919	1-217	Proto-Historic Religion	1-285
Non-Cooperation Movement, 1920	1-217	Ancient Indian Religions	1-285
Simon Commission (1927-28)	1-220	Theistic Religions	1-287
Nehru Report (1928)	1-220	Other Religions	1-288
Nationalist Party	1-221	The Schools of Indian Philosophy	1-289
Civil Disobedience Movement (First Phase)	1-222		
Communal Award, 1932	1-224	Art and Architecture	
The Poona Pact, 1932	1-225	The Indus Valley Period	1-292
Struggle for Independence Third Phase (1935-1947)		Mauryan Art	1-293
Government of India Act, 1935	1-226	Post-Mauryan Art	1-294
August Offer	1-228	Indo-Islamic Art and Architecture	1-302
Cripps Mission, 1942	1-228	Mughal Architecture	1-303
Quit India Movement, August 1942	1-229	Post-Mughal Architecture	1-304
Subhash Chandra Bose and Indian National Army	1-231	European Influence on Indian Art	1-305
Rajagopalachari Formula (March, 1944)	1-232		
Cabinet Mission Plan (March, 1946)	1-233	Indian Painting	
Prelude to Independence	1-235	Paintings	1-307
Partition of India	1-236	Cave Paintings	1-307
Integration of Princely States After Independence	1-237	Miniature Paintings	1-308
		Folk Paintings	1-311
Leftist Movement		Music, Dance and Drama	
Communist Ideology: The Rise and Growth of the Left in India	1-237	Development of Music in India	1-314
Meerut Conspiracy Case	1-238	Hindustani Music	1-315
Formation of the Congress Socialist Party	1-239	Carnatic Music	1-316
		Folk Music	1-317
Governor-Generals and Viceroys of India		Emergence of Dance in India	1-318
Governor-Generals of the Company	1-240	Classical Dances of India	1-319
Governor-Generals of India	1-243	Folk Dances of India	1-322
Viceroy of India	1-246	Drama and Theatre	1-324
		Modern Indian Theatre	1-326
Important National Leaders	1-250	Puppetry	1-326
Timeline	1-253	Festivals and Fairs	
Practice Questions: Topicwise Questions UPSC Prelims Questions (2024-2016), UPSC Mains Questions (2023-2015)	1-255 — 1-274	Festivals and Fairs	1-328
		Statewise Fairs and Festivals of India	1-330
Indian Art and Culture		Crafts	
Introduction to Indian Culture		Crafts of India	1-335
Culture and Civilisation	1-275	Crafts in Various Phases	1-335
A Preview of Indian Culture	1-275	Classification of Crafts	1-336
Characteristics of the Indian Culture	1-277		
Languages and Literature		Indian Cinema	
Indian Language Families	1-277	The Era of Silent Films (1913-31)	1-337
Northern Indian Languages and Literature	1-280	Pre-Independence Talkies (1931-47)	1-337
Literature and National Ideology	1-283	Post-Independence Films (1947-Till Today)	1-337
Indian Literature in English Language	1-285	Various Types of Indian Cinema	1-338
		Practice Questions: Topicwise Questions, UPSC Prelims Questions (2024-2016), UPSC Mains Questions (2023-2015)	1-339 — 1-351

India & World Geography

World Geography

The Universe

The Universe	2-3
Solar System	2-5
The Planets	2-6

The Earth

Origin of the Earth	2-9
Motions of the Earth	2-10
Latitudes and Longitudes	2-12
International Date Line	2-14
Moon and Tides	2-15
Geological Time Scale	2-16

Lithosphere

Interior of the Earth	2-16
Earthquakes	2-18
Volcanism	2-18
Rocks	2-20
Major Theories for Evolution of Landforms	2-22
Forces and Associated Landforms	2-24
Mountains, Plateaus and Plains	2-28
Soil	2-30

Atmosphere

Composition of Atmosphere	2-32
Insolation and Temperature	2-34
Atmospheric Pressure	2-36
Winds	2-37
Humidity	2-40
Clouds	2-41
Precipitation	2-41
Rainfall	2-42
Air Masses	2-42
Fronts	2-44
Cyclone	2-45
World Climatic Types and their Distribution	2-47

Hydrosphere

Hydrological Cycle	2-54
Sources of Water	2-55
Temperature and Salinity of Oceans	2-57
Ocean Currents	2-60
Coral Reefs	2-63
Marine Resources	2-63
Rivers	2-66
Lakes	2-67

Human Geography : World

Human Race	2-69
Ethnic Groups of the World	2-70
World Population	2-71
Human Development	2-75
Migration	2-76
Settlement	2-78

Natural Resources of the World

Land Resources	2-79
Forest Resources	2-79
Water Resources	2-79
Minerals Resources	2-80
Energy Resources	2-82

Agriculture

Introduction	2-83
Important Crops of the World	2-84
Modern Agricultural Practices	2-88
Fertigation	2-89

Industries and Industrial Regions

Industries	2-90
Important Industries of the World	2-91
World Industrial Regions	2-93
World Industrial Problems	2-95

Transport and Communication

Transport	2-95
Road Transport	2-95
Rail Transport	2-96
Water Transport	2-96
Air Transport	2-97
Other Means of Transport : Pipelines	2-98
Communication	2-98

Continents of the World

Asia	2-99
Africa	2-106
North America	2-110
South America	2-113
Europe	2-117
Antarctica	2-120
Australia	2-121

Practice Questions: Topicwise Questions, UPSC Prelims

Questions (2024-2016), UPSC Mains

Questions (2023-2018)

2-123— 2-140

Indian Geography

Introduction to Indian Geography

Area and Extent	2-141
Administrative Divisions	2-141
Geological Aspects of India	2-143
Recent Rock Systems	2-146

Physiography

Relief and Physiographic Divisions	2-146
The Himalayas	2-146
The Great Indian Plains	2-152
The Peninsular Plateau	2-153
The Indian Desert	2-157
The Coastal Plains	2-157
The Islands	2-158

Drainage System

Types of Drainage System	2-159
Drainage Systems in India	2-160
The Himalayan River System	2-160
The Peninsular River System	2-163
Lakes	2-166
National Water Grid	2-167

Climate

Characteristics of Indian Climate	2-168
Important Concepts about Origin of Monsoon	2-169
The Mechanism of the Indian Monsoon	2-171
Seasons	2-173
Rainfall Distribution in India	2-174
Drought and Flood	2-176
Indian Meteorological Department (IMD)	2-177

Soil and Vegetation

Soil	2-177
Major Soils of India	2-178
Natural Vegetation of India	2-181
Types of Vegetation	2-181
Classification of Forests in India	2-183
Wildlife in India	2-184

Population and Settlement

Population	2-186
Population Growth Since 1901	2-187
Census 2011	2-187
National Population Register (NPR)	2-188
Migration	2-191
Tribes of India	2-194
Scheduled Castes	2-197

Resources

Human Resources	2-198
Natural Resources	2-198
Mineral Resources	2-198
Energy Resources	2-202
Conventional Sources of Energy	2-202
Non-Conventional Sources of Energy	2-204
Renewable Energy Programmes and Schemes in India	2-207
Water Resources	2-209
Marine Resources	2-209
Land Resources in India	2-210
Forest Resources	2-211

Agriculture

Agriculture in India	2-212
Cropping Seasons	2-214
Green Revolution	2-216
Problems of Indian Agriculture	2-217
Fertilisers	2-217
New Initiatives in Agriculture Sector	2-217

Irrigation

Irrigation in India	2-221
Types of Irrigation Techniques	2-222
Irrigation Projects	2-223

Industries

Industrial Sector	2-226
Agro-Based Industry	2-227
Mineral Based Industries	2-228
Engineering Industries	2-230
Forest Based Industries	2-231
Cottage and Small Scale Industry	2-231
Tourism Industry	2-232
IT Industry	2-232
Industrial Regions of India	2-232

Transport and Communication

Transport	2-234
Roadways	2-235
Railways	2-238
Air Transport	2-241
Water Transport	2-241
Pipeline Transport	2-242
Communication	2-243
Mass Communication	2-244

Practice Questions: Topicwise Questions, UPSC Prelims Questions (2024-2016), UPSC Mains Questions (2023-2015)

2-245 — 2-262

Environment and Ecology

Environment

Environment	2-263
Features of Environment	2-263
Parts of Environment	2-264
Human and Environment	2-265

Ecology and Ecosystem

Ecology	2-265
Ecosystem	2-267
Types of Ecosystem	2-268
Function of the Ecosystem	2-270
Ecological Pyramids	2-271
Nutrients Flow in the Ecosystem	2-273
Ecological Succession	2-275
Ecological Interactions	2-276

Environmental Pollution

Pollution	2-279
Types of Pollution	2-279
Air Pollution	2-279
Water Pollution	2-282
Noise Pollution	2-285
Soil Pollution	2-285
Marine Pollution	2-286
Radioactive Pollution	2-287
E-Waste Pollution	2-288
Solid Waste Pollution	2-289
Pollutants	2-290

Natural Hazards and Disaster Management

Natural Disaster	2-292
Man-Made Disaster	2-298

Disaster Management	2-299
Disaster Management in India	2-300

Biodiversity

Levels of Biodiversity	2-302
Importance of Biodiversity	2-302
Biodiversity Hotspots	2-304
Biodiversity Conservation	2-306
Biosphere Reserves	2-307
Institutes Associated with Biodiversity Conservation in India	2-308
International Efforts towards Biodiversity Conservation	2-311
Other Indian Initiatives	2-317

Climate Change and Global Warming

Geographical Environmental Change	2-319
Greenhouse Gas	2-321
Indian Efforts for Combating Climate Change	2-323
International Efforts on Climate Change and Global Warming	2-325
International Solar Alliance	2-328

Sustainable Development

Concept of Sustainable Development	2-329
Parameters of Sustainable Development	2-330
Strategies for Achieving Sustainable Development	2-331
Sustainable Development Goals	2-333

Practice Questions: Topicwise Questions, UPSC Prelims Questions (2024-2016), UPSC Mains Questions (2023-2015)

2-334 — 2-352

Indian Polity and Governance

Constitutional Development

Historical Background	3-3
Historical Background of Constituent Assembly	3-9
Enactment of the Constitution	3-10
Objective Resolution	3-10
Drafting Committee	3-10

The Preamble and Salient Features of the Indian Constitution

The Constitution	3-13
The Preface to the Constitution of India: The Preamble	3-13
Salient Features of the Indian Constitution	3-15

Union and Its Territory

India : Union of States	3-17
Reorganisation of States	3-19
Committees and Commissions for Creating New State	3-19

Citizenship

Provisions for Citizenship	3-21
Ways of Acquiring Indian Citizenship	3-22
Ways of Losing Indian Citizenship	3-23
Single Vs Dual Citizenship	3-24
Non-Resident Indians (NRIs)	3-24
The Citizenship Amendment Act, 2019	3-25

Fundamental Rights

Introduction	3-25
Classification of Fundamental Rights	3-26
Right to Equality (Articles 14-18)	3-26
Right to Freedom (Articles 19-22 : Protection of Six Freedom Rights)	3-28
Right against Exploitation (Articles 23-24)	3-32
Right to Freedom of Religion (Articles 25-28)	3-32
Cultural and Educational Rights (Articles 29-30)	3-33
Right to Constitutional Remedies (Article 32)	3-34
Writ Jurisdiction of Supreme Court and High Courts	3-35
Amendability of Fundamental Rights	3-36

Directive Principles of State Policy

Objective and Purpose behind the Directive Principles	3-37
Classification of Directive Principles	3-38
Nature of Directive Principles	3-39
Difference Between Directive Principles and Fundamental Rights	3-39

Fundamental Duties

Introduction	3-41
Fundamental Duties for Citizens	3-41
Relationship between the Fundamental Rights, Directive Principles and Fundamental Duties	3-42

Union Executive

The President	3-42
Powers and Functions of the President	3-44
Vice-President	3-47
Prime Minister	3-48
Council of Ministers	3-50
Cabinet Committees	3-51

Parliament of India

Constitutional Arrangement and Provision for Parliament	3-52
Rajya Sabha	3-52
Lok Sabha	3-53
Presiding Officers of the Parliament	3-54
Power, Privileges and Immunities of the Members of Parliament	3-56
Parliamentary Proceedings	3-58
Legislative Procedure in Parliament	3-59
Budget in the Parliament	3-62
Parliamentary Committees	3-64

State Executive

Governor	3-66
Council of Ministers in States	3-69
Constitutional Provisions	3-70

The State Legislature

Composition of the Houses	3-72
Legislative Council	3-72
Legislative Assembly	3-72
Presiding Officers of the State Legislature	3-74
Privileges of State Legislature	3-75

The Judiciary

The Supreme Court	3-78
Jurisdiction of the Supreme Court	3-80
Public Interest Litigation (PIL)	3-81
The Role of Supreme Court	3-82
Landmark Judgements of the Supreme Court	3-82
High Court	3-84

Subordinate Courts	3-86		
Lok Adalat	3-87		
Alternative Dispute Resolution (ADR)	3-88		
Indian Federalism and Centre-State Relations			
Federalism in India	3-88		
Centre-State Relations	3-89		
Legislative Relations	3-89		
Administrative Relations	3-91		
Financial Relations	3-92		
Inter-State Relations	3-97		
Zonal Councils	3-99		
Emergency Provisions			
National Emergency (Article 352)	3-100		
President's Rule or State Emergency (Article 355, 356, 365)	3-101		
Financial Emergency (Article 360)	3-102		
Union Territories, Scheduled and Tribal Areas			
Union Territories (UTs)	3-103		
Scheduled and Tribal Areas	3-105		
Constitutional Bodies			
Election Commission	3-107		
Public Service Commission	3-108		
Finance Commission	3-109		
National Commission for SCs and STs	3-110		
Comptroller and Auditor-General of India (CAG)	3-112		
The Attorney-General of India	3-113		
Advocate-General of the State	3-113		
Non-Constitutional Bodies in India			
NITI Aayog	3-114		
National Development Council (NDC)	3-114		
National Commission for Women (NCW)	3-116		
National Human Rights Commission (NHRC)	3-116		
Central Vigilance Commission (CVC)	3-118		
National Commission for Minorities	3-121		
Public Services and Tribunals			
Public Services	3-122		
Constitutional Provisions	3-124		
Non-Applicability of Safeguards	3-124		
Tribunals	3-124		
The National Green Tribunal (NGT)	3-126		
		Special Provisions for Some States	
		Maharashtra and Gujarat	3-127
		Andhra Pradesh	3-128
		Local Self-Government	
		Evolution of Panchayati Raj Institutions	3-129
		The Municipalities	3-133
		Urban Local Government Structures in India	3-135
		Provision for Special Categories and Official Language	
		Scheduled Castes and Scheduled Tribes	3-137
		Official Language	3-138
		Authoritative Text of the Constitution in Hindi Language	3-140
		Political Parties and Electoral System	
		Political Parties	3-140
		Electoral Reform	3-142
		Voter Verified Paper Audit Trail (VVPAT)	3-143
		The Model Code of Conduct	3-144
		Delimitation	3-145
		Anti-Defection Law	3-146
		Pressure Groups	3-147
		Public Policy in India	
		Nature of Public Policy	3-149
		Law and Public Policy	3-149
		Constitutional Amendments	
		Meaning of Amendment	3-151
		Amendment Procedure	3-151
		Governance and Rights Issues	
		Good Governance	3-155
		e-Governance	3-156
		e-Panchayat	3-157
		Mobile Governance	3-157
		Right to Information (RTI)	3-157
		Consumer Rights	3-158
		Practice Questions: Topicwise Questions, UPSC Prelims Questions (2024-2016), UPSC Mains Questions (2023-2015)	3-159 — 3-191

Indian Economy

Economy: An Introduction		Major Stock Exchanges in India	4-58
Branches of Economics	4-3	Insurance Regulatory and Development Authority of India (IRDAI)	4-61
Classification of Economy	4-3		
Sectors of Economy Market	4-4	Agriculture	
Social and Economic Development Index	4-6	Agriculture and Indian Economy	4-62
Sustainable Development	4-8	Revolutions Related to Agriculture	4-62
		Major Agriculture Revolutions in India	4-63
National Income		Agricultural Credit	4-64
Introduction of National Income	4-8	Agriculture Insurance	4-65
National Income Accounting	4-9	Food Security	4-65
Methods of Measuring National Income Accounting	4-9	World Trade Organisation and Agriculture	4-70
Concepts Related to National Income	4-10		
Green Economy	4-12	Industries	
		Role of Industries	4-71
Economic Planning of India		Industrial Policies and Acts	4-72
Planning in Indian Economy	4-13	Companies Amendment Act, 2020	4-73
Five Year Plans in India	4-14	National Small Industries Corporation Limited	4-74
National Development Council	4-17	Central Public Sector Enterprises	4-74
		Micro, Small and Medium Enterprises	4-76
Population, Poverty and Unemployment		Industrial Sickness	4-80
Demography	4-17	Industrial Growth	4-82
National Population Policy, 2000 (NPP)	4-18	Central Government Programmes	4-82
Census of India, 2011	4-19		
Poverty	4-19	Public Finance in India	
Employment and Unemployment	4-22	Fiscal Policy	4-84
		Union Budget	4-85
Welfare Programmes and Schemes		Public Revenue	4-88
Social Welfare Programmes	4-24	Taxation	4-88
Health Oriented Programmes	4-26	Finance Commission	4-93
Education Oriented Programmes	4-27	Committees Related to Taxation	4-93
Women Empowerment Programmes	4-29	Fiscal Consolidation	4-95
Rural Development Schemes	4-32		
Urban Development Schemes	4-34	Foreign Trade	
Skill Development Programmes	4-35	Meaning of Foreign Trade	4-97
Other Programmes	4-36	Foreign Trade Policy, 2015-20	4-97
		The Foreign Exchange Reserves	4-102
Money and Banking		Foreign Direct Investment (FDI)	4-104
Money	4-41		
Development of Banking System	4-42	International Organisations and Regional Groups	
Types of Banking	4-42	Bretton Woods Conference	4-106
Reserve Bank of India (RBI)	4-42	International Monetary Fund	4-108
Basel Accord	4-47	World Trade Organisation (WTO)	4-109
Financial Inclusion	4-52		
MUDRA Bank	4-54	Economic Glossary	4-114
Money Market and Capital Market		Practice Questions: Topicwise Question, UPSC Prelims Questions (2023-2018), UPSC Mains Questions (2023-2018)	4-118 — 4-143
Indian Financial Market	4-55		
Capital Market	4-57		
Financial Intermediaries	4-58		
Stock Market	4-58		

General Science & Science and Technology

Physics

Units & Measurement

System of Units	5-4
Measurement	5-4
Some Conversions of Units	5-4
Measurement of Physical Quantities	5-5

Mechanics

Physical Quantities	5-6
Rest and Motion	5-6
Distance and Displacement	5-6
Speed	5-7
Velocity	5-7
Equations of Motion	5-7
Projectile Motion	5-8

The Forces and Laws of Motion

Force	5-8
Newton's Laws of Motion	5-9
Impulse	5-9
Friction	5-10
Rotational Motion	5-10
Simple Machine	5-11
Circular Motion	5-11
Centripetal Force	5-12
Centrifugal Force	5-12

Work, Power and Energy

Work	5-12
Power	5-12
Energy	5-13
Collision	5-15

Gravitation

Newton's Law of Gravitation	5-15
Acceleration due to Gravity	5-15
Gravitational Field	5-16
Gravitational Potential Energy	5-16
Kepler's Laws of Planetary Motion	5-16
Satellite	5-17

Mechanical Properties of Matter

Matter	5-17
Stress	5-17
Strain	5-18
Elasticity	5-18

Hooke's Law	5-18
Pressure	5-19
Pascal's Law	5-19
Archimedes' Principle	5-19
Density	5-19
Relative Density	5-19
Hydrometer	5-19
Surface Tension	5-19
Capillarity	5-20
Viscosity	5-20
Stokes' Law	5-20
Equation of Continuity	5-21
Bernoulli's Theorem	5-21

Oscillation, Wave and Sound

Oscillatory Motion	5-21
Simple Harmonic Motion (SHM)	5-22
Damped Harmonic Motion	5-22
Wave	5-23
Sound	5-25
Musical Scale	5-26
Doppler Effect	5-26
Reverberation	5-27
Human Ear	5-27
SONAR	5-27
Shock Waves	5-27

Heat & Thermodynamics

Heat	5-28
Temperature	5-28
Types of Thermometers	5-28
Thermal Expansion	5-29
Thermodynamics	5-30
Calorimetry (Specific Heat and Latent Heat)	5-31
Car Engine Coolant	5-32
Entropy	5-32
Evaporation	5-32
Refrigeration	5-33
Air Conditioning	5-33
Transmission of Heat	5-33
Greenhouse Effect	5-33
Newton's Law of Cooling	5-34
Kirchhoff's Law	5-34
Stefan's Law	5-34
Wien's Law	5-34

Optics

Light	5-34
Mirror	5-35
Image	5-35
Reflection of Light	5-35
Mirror Formula	5-36
Laws of Refraction	5-37
Scattering of Light	5-37
Lens	5-38
Total Internal Reflection (TIR)	5-39
Prism	5-39
Angle of Deviation	5-39
Dispersion of Light	5-39
Rainbow	5-40
Human Eye	5-40
Defects of Vision	5-40
Optical Instruments	5-41
Maxwell's Electromagnetic Wave Theory	5-42
Doppler's Effect in Light	5-42
Superposition of Waves	5-42
Polarisation of Light	5-43
Methods of Producing Plane Polarised Light	5-43

Electricity & Magnetism

Frictional Electricity	5-43
Electric Charge	5-43
Electric Field	5-44
Electric Dipole	5-45
Electric Current	5-45
Resistance and Resistivity	5-45
Conductance and Conductivity	5-46
Electric Cell	5-46
Chemical Effect of Electric Current	5-47
Heating Effect of Electric Current	5-47
Electric Energy	5-47
Electric Power	5-48
Power Generation and Its Transmission	5-48
Magnetic Effect of Electric Current	5-49
Magnetic Force	5-49
Magnet	5-50
Electromagnetic Induction (EMI)	5-51
Inductance	5-51
AC Generator or Dynamo	5-52
DC Motor	5-52
Transformer	5-52

Modern Physics

Photoelectric Effect	5-53
Atom	5-54
Atomic Structure	5-54
Thomson's Atomic Model	5-54
Rutherford's Atomic Model	5-54
Bohr's Atomic Model	5-54
Nucleus	5-54
Cathode Rays	5-55
X-rays	5-55
CT Scan	5-56
Magnetic Resonance Imaging (MRI)	5-56
Nuclear Forces	5-56
Nuclear Binding Energy	5-56
Nuclear Energy	5-56
Nuclear Leakage	5-57
Radioactivity	5-58
Fluorescence and Phosphorescence	5-59

Electronics

Materials	5-59
Conductor	5-59
Insulator	5-59
Semiconductor	5-59
p-n Junction	5-60
Transistor	5-61
Superconductivity	5-61
LASER	5-62

Communication System and Nanotechnology

Communication System	5-63
Elements of a Communication System	5-63
Propagation of Electromagnetic Waves	5-64
Earth's Atmosphere	5-65
Satellite Communication	5-65
Mobile Telephony	5-65
TV Remote Control	5-66
MODEM (Modulator Demodulator)	5-66
Set-Top Box (STB)	5-66
Radar	5-66
Nanotechnology	5-66
Nanotechnology and Food	5-67
Nanotechnology and Electronics	5-67
Nanotechnology in India	5-68
Nano Mission	5-68

**Practice Questions: Topicwise Question, UPSC Prelims
 Questions (2024-2016)**

5-69 — 5-76

Chemistry

Introduction of Chemistry

Branches of Chemistry	5-77
-----------------------	------

Matter and Its States

Matter	5-77
Mixtures	5-78
Phases of Matter	5-79
Solid State	5-79
Liquid State	5-79
Gaseous State	5-80
Gas Laws	5-80
Interconversion of States (Phases) of Matter	5-81

Atomic Structure

Dalton's Atomic Theory	5-81
Atoms	5-82
Atomic Models	5-82
Developments Leading to the Bohr's Model of Atom	5-83
Modern Structure of Atom	5-83
Heisenberg's Uncertainty Principle	5-83
Properties of Atom	5-83
Different Atomic Species	5-84
Quantum Numbers	5-84

Radioactivity

Emission of α , β and γ -Rays	5-85
Radioactive Disintegration	5-85
Soddy Fajan's Group Displacement Law	5-85
Radioisotopes and their Applications	5-86

Chemical Bonding

Chemical Bond	5-86
Theories of Chemical Bonding	5-88

Chemical Reactions and Equations

Changes Around Us	5-89
Chemical Reactions	5-89
Chemical Equations	5-89

Electrochemistry

Electrochemical Changes	5-90
Electrochemical Cell	5-90
Fuel Cells	5-91
Electrolysis	5-91
Electrochemical Series	5-92
Corrosion	5-92

Acids, Bases and Salts

Acids	5-93
Bases	5-93

Salts	5-94
pH Scale and pH Value	5-94
Indicators	5-95
Buffer Solutions	5-95

Solutions

Introduction	5-96
Types of Solution	5-96
Solubility	5-96
Colligative Properties	5-97
Relative Lowering of Vapour Pressure	5-97
Elevation of Boiling Point	5-97
Depression of Freezing Point (Cryoscopy)	5-97
Osmotic Pressure	5-97

Surface Chemistry

Adsorption	5-97
Colloids	5-98
Suspension	5-99
Catalysis	5-99

Classification of Elements

Mendeleev's Periodic Table	5-99
Modern Periodic Table	5-99
Long Form of Periodic Table	5-100
Periodic Properties	5-101

Metallurgy

Modes of Occurrence of Elements in Nature	5-102
Steps Involved in the Extraction of Metals	5-102
Conversion of Concentrated Ore into Oxide	5-103
Reduction of Metal Oxide to Metal	5-103

Metals and their Compounds

Metals	5-104
Alkali Metals and their Compounds	5-104
Alkaline Earth Metals and their Compounds	5-105
Some Important Metals and their Uses	5-105
Alloys	5-107

Hydrogen and its Compounds

Hydrogen (H)	5-107
Compounds of Hydrogen	5-107
Heavy Water (D_2O)	5-108
Hydrogen Peroxide (H_2O_2)	5-108

Non-Metals and their Compounds

Non-Metals	5-108
Carbon (C)	5-109
Carbon Monoxide (CO)	5-109

Carbon Dioxide (CO ₂)	5-109	Environmental Chemistry	
Silicon (Si)	5-109	Atmospheric Pollution	5-128
Nitrogen (N ₂)	5-110	Major Gaseous Air Pollutants	5-128
Phosphorus (P)	5-110	Consequences of Atmospheric Pollution	5-129
Oxygen (O)	5-110	Stratospheric Pollution	5-130
Dioxygen (O ₂)	5-110	Ozone Layer Depletion Over Antarctica	5-130
Sulphur (S)	5-110	Effects of Depletion of Ozone Layer	5-131
Halogens (F, Cl, Br, I)	5-111	Water Pollution	5-131
Noble Gases (He, Ne, Ar, Kr, Xe, Rn)	5-111	Soil Pollution	5-131
Organic Compounds		Strategy for Control of Pollution	5-131
Introduction	5-112	Electronic Waste	5-132
Hydrocarbons	5-112	Practice Questions: Topicwise Question, UPSC Prelims	
Important Organic Compounds and their Uses	5-113	Questions (2024-2016)	5-133 — 5-140
Food Chemistry		Biology	
Minerals	5-115	Biology : An Introduction	
Vitamins	5-116	Introduction	5-141
Food Additives	5-116	Branches of Biology	5-142
Beverages and Tobacco	5-117	Some Scientists and their Significant Contribution in Biology	5-142
Biomolecules and Bioactive Compounds		Cell: The Unit of Life	
Biomolecules	5-118	The Cell	5-143
Carbohydrates	5-118	Structural Organisation of Cell	5-144
Proteins	5-119	Difference between Prokaryotic and Eukaryotic cells	5-146
Nucleic Acids	5-119	Difference between Plant cell and Animal cell	5-147
Fats and Oils	5-119	Chromosomes	5-147
Lipids	5-119	Nucleic Acid	5-148
Hormones	5-120	Cell Division	5-149
Bioactive Compounds	5-120	Structural Organisation in Plants and Animals	
Chemistry in Everyday Life		Morphology of the Plants	5-151
Cleansing Agents	5-121	Plant Anatomy	5-154
Soaps	5-121	Anatomy of Animals	5-155
Detergents	5-121	Classification in Living Organisms	
Explosives	5-121	Binomial System of Nomenclature	5-158
Agricultural Chemistry	5-122	Classification of Organisms	5-158
Chemical in Medicines	5-123	Virus	5-159
Dyes	5-123	Kingdom-Monera	5-159
Glass	5-123	Kingdom-Protista	5-160
Cement or Portland Cement	5-124	Kingdom-Fungi	5-161
Polymers	5-124	Kingdom-Plantae	5-162
Plastics	5-124	Kingdom-Animalia	5-164
Fibres	5-125	Animal Systems	
Rubber	5-125	Nutrition in Living Beings	5-168
Ceramics	5-125	Animal Nutrition	5-168
Cosmetics	5-126	Human Nutrition	5-168
Fuels	5-126	Human Digestive System	5-169
Flame	5-128		
Propellants	5-128		

Respiration in Animals	5-171	Immunity	5-205
Human Respiratory System	5-172	Vaccination and Immunisation	5-205
Circulatory System in Animals	5-173	Some Vaccines and their Doses	5-205
Human Circulatory System	5-173	Drugs	5-206
Excretion in Animals	5-176	Agricultural Science	
Skeletal System	5-177	Agricultural Institutions in India	5-207
Nervous System	5-178	Organic Farming and Related Techniques	5-207
Human Nervous System	5-178	Classification of Crops	5-208
Sense Organs	5-180	Farming System	5-209
Endocrine System	5-181	Plant Diseases	5-209
Reproduction in Animals	5-183	Agricultural Products, Preservation and Marketing	5-211
Human Reproductive System	5-183	Plant Product and their Preservation	5-211
Embryonic Development	5-185	Animal Husbandry	
Plant Systems		Breeding	5-212
Nutrition in Plants	5-185	Rearing Animals	5-212
Photosynthesis in Plants	5-187	Poultry	5-214
Transport in Plants	5-188	Fisheries	5-214
Respiration in Plants	5-189	Economic Importance of Fishes	5-215
Plant Growth and Development	5-190	Apiculture	5-217
Plant Hormones	5-190	Sericulture	5-217
Plant Reproduction	5-191	Biology and Human Welfare	
Vegetative Propagation	5-191	Some Economically Important Plants	5-218
Sexual Reproduction	5-191	Cereals	5-218
Genetics : The Science of Heredity		Pulses (Legumes)	5-218
Some Important Terms Related to Genetics	5-192	Timbre Plants	5-219
Law of Inheritance	5-192	Sugar Yielding Plants	5-219
Law of Dominance	5-193	Spices and Condiments	5-219
Law of Segregation	5-193	Biofertilisers	5-220
Law of Independent Assortment	5-193	Microorganisms in Human Welfare	5-220
Linkage	5-193	Practice Questions: Topicwise Question,	
Determination of Sex	5-194	UPSC Prelims Questions (2024-2016)	5-221 — 5-232
Mutation	5-194	Science & Technology	
Genetic Disorders	5-195	Space Technology	5-233
Gene Expression or Protein Synthesis	5-195	Satellite Technology	5-235
Gene and Gene Concept	5-196	Launch Vehicle Programmes of India	5-238
Origin and Evolution of Life		Major Indian Space Mission	5-240
Origin of Life	5-197	List of Future ISRO Missions	5-242
Organic Evolution	5-197	India's Defence Programmes	
Evidences of Organic Evolution	5-198	Ministry of Defence	5-244
Human Evolution	5-199	Missile Technology	5-247
Health and Diseases		Missile Development Programmes in India	5-249
Health	5-200	Submarines of Indian Navy	5-253
Disease	5-200	Tanks and Armoured Vehicles	5-255
Sexually Transmitted Diseases (STDs)	5-204		
Mental Disorder	5-204		

Nuclear Energy

Nuclear Energy: An Introduction	5-257
Nuclear Reactor	5-260
Research Reactors in India	5-260
India's Atomic Energy Reactors	5-261

Biotechnology

Biotechnology: An Introduction	5-266
Principles and Processes of Biotechnology	5-266
Terms Related to Biotechnology	5-275

Computer Technology

Classification of Computer	5-277
Hardware	5-279
Software	5-282
Operating System	5-282

Internet

History of Internet	5-284
Internet Connections	5-285
Important Terms Related to Internet	5-286

Telecommunication

Introduction	5-289
Other Modes of Communication	5-291
Information Technology	5-292
Artificial Intelligence	5-295

Practice Questions: Topicwise Question, UPSC Prelims

Questions (2024-2016), UPSC Mains	
Questions (2023-2018)	5-296 — 5-317

General Knowledge

India : General Knowledge

First in India	6-3
Famous Places Associated with Eminent Persons	6-7
Surnames/Nicknames of Famous Persons	6-7
Memorials of Famous Personalities	6-7
National Symbols	6-10
National Dates	6-12
International Dates	6-13

Books and Authors

Books by Indian Freedom Fighters and Politicians	6-15
Famous Women Writers in India	6-16
Award Winning Authors of Indian Origin and their Writings	6-17
Famous Books of Foreign Writers	6-17
Important Thinkers Philosophers and their Books	6-18

Abbreviations 6-19 — 6-20

National Awards/Honours

Bharat Ratna	6-21
Padma Awards	6-22
Valour Awards	6-22
Film Awards	6-23
Cultural and Literary Awards	6-24
Sports Awards	6-25

Sports 6-29—6-41

Indian States and Union Territories 6-41—6-62

World : General Knowledge

First in World	6-62
Superlatives the World	6-64
World Famous of Places	6-70
World Famous Monuments	6-71
Important Newspapers of the World	6-73
The Seven Wonders of the World	6-74

International Awards / Honours

Nobel Prize	6-75
Films, Music and Art Awards	6-77
International Beauty Contests	6-80
India's International Awards	6-81

United Nations and Other International Organisations

United Nations (UN)	6-82
The UN Charter (Constitution)	6-84
Main Organs of the UN	6-84
Economic Organisations	6-91
Regional Organisations	6-94
Political Organisations	6-96
Defence Organisation	6-97

Practice Questions: Topicwise Question, UPSC Prelims

Questions (2024-2016), UPSC Mains	
Questions (2023-2015)	6-100 — 6-112

Current Affairs 7-3—7-32

Crack Sets (1-5) 8-1—8-48