

General Studies-III

(Technology, Economic Development, Bio-diversity, Environment, Security and Disaster Management)

- Indian Economy and issues relating to Planning, Mobilization of Resources, Growth, Development and Employment.
- Inclusive Growth and issues arising from it.
- Government Budgeting.
- Major Crops Cropping Patterns in various parts of the country, Different Types of Irrigation and Irrigation Systems; Storage, Transport and Marketing of Agricultural Produce and Issues and Related Constraints; E-technology in the aid of farmers.
- Issues related to Direct and Indirect Farm Subsidies and Minimum Support Prices; Public Distribution System - Objectives, Functioning, Limitations, Revamping; Issues of Buffer Stocks and Food Security; Technology Missions; Economics of Animal-Rearing.
- Food Processing and Related Industries in India- Scope' and Significance, Location, Upstream and Downstream Requirements, Supply Chain Management.
- Land Reforms in India.
- Effects of Liberalization on the Economy, Changes in Industrial Policy and their Effects on Industrial Growth.
- Infrastructure: Energy, Ports, Roads, Airports, Railways etc.
- Investment Models.
- Science and Technology- Developments and their Applications and Effects in Everyday Life.
- Achievements of Indians in Science & Technology; Indigenization of Technology and Developing New Technology.
- Awareness in the fields of IT, Space, Computers, Robotics, Nano-technology, Bio-technology and issues relating to Intellectual Property Rights.
- Conservation, Environmental Pollution and Degradation, Environmental Impact Assessment.
- Disaster and Disaster Management.
- Linkages between Development and Spread of Extremism.
- Role of External State and Non-state Actors in creating challenges to Internal Security.
- Challenges to Internal Security through Communication Networks, Role of Media and Social Networking Sites in Internal Security Challenges, Basics of Cyber Security; Money-Laundering and its prevention.
- Security Challenges and their Management in Border Areas Linkages of Organized Crime with Terrorism.
- Various Security Forces and Agencies and their Mandate.

ECONOMIC DEVELOPMENT

Indian Economy & Issues Relating to Planning, Mobilization of Resources, Growth, Development & Employment		
Planning	 Determinants of Growth & Development Importance & Limitations of Economic 	
Meaning of Planning	Growth	

- Need for Planning in Economic Development
- Imperative Vs. Indicative Vs. Structural Planning
- Objectives of Planning
- Indian Planning History
- Techniques of Indian Planning
- Achievements & Failures of Indian Planning
- Shortcomings of Planning in India
- NITI Aayog Vs. Planning Commission

Mobilisation of Resources

- Types of Resources Financial, Human, Natural etc.
- Need for Resource Mobilisation
- Role of Savings & Investment
- Government Resources Tax & Non-Tax (or Fiscal & Monetary Policy)
- Banking Sector & NBFCs
- Capital Market
- External Sources FDI, ODA etc.
- Public Borrowing & Management of Public Debt
- Challenges in Mobilising Resources for Development
- Steps That Can Be Taken

Growth & Development

- Meaning of Development & Growth
- Difference between Development & Growth

- Jobless Growth
- Pro-Poor Growth
- Balanced & Unbalanced Growth
- Dimensions of Development
- Measurement & Indicators of Development
- Approaches to Development:
 - Market-Based Approach
 - Role of State and Planned Approach
 - Mixed Economy Approach
- Challenges to Development & Growth

Employment

- Nature Rural vs. Urban, Formal Vs. Informal
- Terms Related to Employment Labour Force Participation Rate, Employment Rate, Working Age Population etc.
- Sectoral Distribution of Employment
- Quality of Employment
- Causes of Lack of Employment
- Restructuring of Workforce
- Government Initiatives for Generating Employment

Inclusive Growth & Issues Arising From It

- What is Inclusive Growth?
- Elements of Inclusive Growth
- Need for Inclusive Growth

- Indicators of Inclusive Growth
- Challenges in Achieveing Inclusive Growth in India
- 12th FYP & Inclusive Growth

Government Budgeting

Need for Government Budgeting

Components of the Government Budget

- Revenue Account Revenue Receipts & Revenue Expenditure
- Capital Account Capital Receipts & Capital Expenditure
- Fiscal Deficit
- Primary Deficit

Fiscal Policy

Deficit Reduction

FRBM Act

Other Types of Budgets - Outcome, Zero-Based, etc.

Changes in Budgetary Process in 2017

Measures of Government Deficit

Revenue Deficit

Land Reforms in India

Rationale for Land Reforms

Success of Land Reforms

Impact of Land Reforms Acquisition, Rehabilitation & Resettlement Problems in Implementation of Land Reforms Act, etc. **Effects of Liberalization on the Economy** Phase of Liberalisation Impact on Different Sectors of the Economy Changes In Industrial Policy & their Effects on Industrial Growth Weaknesses and Failures of Industrial Industrial Policy Before 1991 ■ Industrial Policy After 1991 **Policies** ■ Phases of Industrial Growth National Manufacturing Policy Linkage Between Economic Reforms and SEZs **Economic Outcomes** Make in India **Infrastructure** Airports Energy Ports Railways Roads **Investment Models Need for Investment** Foreign Investment Models: • FDI • FII, etc. **Sources of Investment** Sector Specific Investment Models Cluster Based Investment Models **Types of Investment Models** Domestic Investment Models **Investment Models Followed by India** Public Investment Model • Private Investment Model Public Private Participation **Investment Model**

Recent Initiatives - Land Leasing, Land

Components of Land Reforms

AGRICULTURE

Major Crops Cropping Patterns in Various Parts of the Country		
 Importance of Cropping Pattern Types of Cropping Pattern Reasons Why Cropping Pattern Differ 	 Factors Influencing Cropping Pattern Emerging Trends in Cropping Pattern Long-Run Effects of Current Trends in Cropping Pattern 	
Different Types of Irrigation & Irrigation Systems Storage		
 Modes of Irrigation Sources of Irrigation Choosing an Irrigation System Problems Associated with Irrigation 	 Progress of Irrigation Under Five Year Plans Environmental Effects of Irrigation Need for Systemic Irrigation Reforms Need for a National Water Policy 	
Transport & Marketing of Agricultural Produce & Issues & Related Constraints		
 Process of Agricultural Marketing - Marketing Channels, Functionaries, Costs, etc. Role of FCI 	 APMCs National Agricultutral Market (NAM) Farmer Producer Organisations (FPO) Contract Farming 	

Futures Trading in Agricultural Commodities
armers, Technology Missions
m Subsidies & Minimum Support Prices
Effectiveness, Extent & Problems of SubsisiesClash with WTO Agreements
, Functioning, Limitations, Revamping
 Need to Improve the Working of PDS Measures to Improve the Loopholes & Lacunaes Associated with PDS Steps Taken by Governement in this Regard
cks & Food Security
 Need for Food Security NFSM And othe Food Security Realted Government Initiatives
Animal-Rearing
ate at the december of the dis-
ated Industries in India
 Upstream & Downstream Requirements Supply Chain Management Government Policies and Initiatives - SAMPADA, 12th FYP, etc.

SCIENCE & TECHNOLOGY

Developments & their Applications & Effects in Everyday Life		
Chemicals in Food	Anti-Fertility Drugs, etc.	
Artificial Sweetening AgentsFood Preservatives	Cleansing Agents	
Drugs	SoapsSynthetic detergents	
Di ugs	- Synthetic detergents	
AntacidAntihistamines	Glass	
 Neurologically Active Drugs 	Water Softener	
TranquilizersAnalgesicsAntimicrobials	Water Purification/Disinfection	
AntibioticsAntiseptic and Disinfectant	Microwave Oven, etc.	
Achievements of Indians in Science & Technology		
 Chandrasekhara Venkata Raman Acharya Jagadish Chandra Bose Satyendra Nath Bose Meghnad Saha 	 A.P.J. Abdul Kalam Vikram Sarabhai Mokshagundam Visvesvaraya Har Gobind Khorana 	

Homi Jehangir BhabhaSubrahmanyan Chandrasekhar	Tessy ThomasC.N.R. Rao		
Indigenization of Technology	Indigenization of Technology & Developing New Technology		
IT & ComputersSpaceNanotechnologyBiotechnology	RoboticsDefenceNuclear		
Awareness in Different Fields			
IT & ComputersSpaceNanotechnologyBiotechnology	RoboticsDefenceNuclear		
Issues Relating to Intellectual Property Rights			
 Need for Intellectual Property Rights Types of IPR IPR Regime in India 	 International Agreements Related to IPRs Geographical Indicators Recent Issues - Evergreening, Compusiory Licensing, Prominent Cases etc. 		

BIODIVERSITY & ENVIRONMENT

Conservation		
What is Biodiversity?	Conservation	
Types of Biodiversity - Genetic, Species, Ecosystem, etc. Importance of Biodivesirty - Ecosystem Services, Bio Resources of Economic Importance, Social Benefits etc.	 In-situ & Ex-Situ Eco-Sensitive Areas Ecological Hotspots National Guidelines, Legislations & Other Programmes. International Agreements & Groupings 	
Resasons for Loss of Biodiversity		
Environmental Pollution & Degradation		
Types of Pollution & Pollutants	Causes/Sources of Pollution & Degradation	
Impact of Pollution & Degradation Ozone Layer Depletion and Ozone Hole Greenhouse Gas Effect & Global Warming Eutrophication Desertification Acid Rain Hazardous Waste, etc.	Prevention & Control of Pollution & Degradation National Environment Agencies, Legislations and Policies International Environment Agencies & Agreements	
Environmental Impact Assessment (EIA)		
What is EIA?Indian Guidelines & LegislationsEIA Process	 Need & Benefits of EIA Shortcomings of EIA in India Measures to Make EIA Effective 	
Disaster Management		
Types of DisastersManagement of Disasters	Community Level Disaster ManagementGovernement Initiatives on DisasterManagement	

SECURITY

Linkages Between Development & Spread of Extremism		
 Factors Responsible for Spread of Extremism Steps that State can Taken to Reduce the Spread of Extremism due to Underdevelopment 	Naxalism	
	in Creating Challenges to Internal Security	
Threats from Non-State Actors J&K Separatism Left Wing Extremism North East Insurgency Terrorism in Hinterland & Border Areas Right Wing Terrorism Reasons for Spread of Terrorism State Sponsored Terrorism	Institutional Framework to Tackle Challenge of Internal Security In NIA In NATGRID In MAC In UAPA In TADA In POTA In NCTC	
Challenges to Internal Security T	hrough Communication Networks	
 Role of Media & Social Networking Sites in Internal Security Challenges Challenges in Managing Social Media 	Steps That can be Taken	
	ber Security	
 Cyber Security Threats to Indian Cyber Security Steps taken by India 	 International Cooperation on Cyber Security Cyber Warfare Terms Associated with Cyber Security 	
Money-Launderin	g & its Prevention	
 Process of Money Laundering Impact of Money Laundering Challenges to Tackle Money Laundering 	 Steps to Counter Money Laundering Terms Related To Money Laundering 	
Security Challenges & their I	Management in Border Areas	
 Challenges in Managing Border Security – Coastal & Terrestrial Land Boundary Disputes with Neighbours 	 India's Policy in Border Area Security Management 	
	Crime with Terrorism	
 Types of Organised Crime Challenges in Controlling Organised Crime 	 Indian Context – Link between Organised Crime & Terrorism 	
	Agencies & Their Mandate	
Central Armed Police ForcesCentral Paramilitary Forces	 Security & Intelligence Agencies – IB. R&WA, etc. 	

 ${\tt PDF\ Reference\ URL:\ https://www.drishtiias.com/printpdf/general-studies-III}$