

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

Fiscal DeficitPrimary Deficit

Government Budgeting

Land Reforms in India

Need for Government Budgeting

Components of the Government Budget

- Revenue Account Revenue Receipts & Revenue Expenditure
- Capital Account Capital Receipts & Capital Expenditure

FRBM Act

Fiscal Policy

Deficit Reduction

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

Changes in Budgetary Process in 2017

Measures of Government Deficit

Revenue Deficit

Rationale for Land Reforms

Success of Land Reforms

- Components of Land Reforms Recent Initiatives - Land Leasing, Land 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 Industrial Policy Before 1991 Weaknesses and Failures of Industrial ■ Industrial Policy After 1991 **Policies** Phases of Industrial Growth National Manufacturing Policy Linkage Between Economic Reforms and SEZs **Economic Outcomes** Make in India **Infrastructure** Energy Airports Ports Railways
 - Roads

Investment Models

Need for Investment

Sources of Investment

Role of FCI

Types of Investment Models

- Domestic Investment Models
 - Public Investment Model
 - Private Investment Model
 - Public Private Participation Investment Model

- Foreign Investment Models:
 - FDI

Contract Farming

- FII. etc.
- Sector Specific Investment Models
- Cluster Based Investment Models

Investment Models Followed by India

AGRICULTURE

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

Regulated Markets Futures Trading in Agricultural Commodities Warehousing Cooperative Marketing Shortcomings of Current Agricultural Marketing Process E-Technology in the Aid of Farmers, Technology Missions Issues Related to Direct & Indirect Farm Subsidies & Minimum Support Prices Agricultural Pricing Policy Effectiveness, Extent & Problems of Rationale for Subsidies Subsisies Types of Subsidies Clash with WTO Agreements Public Distribution System Objectives, Functioning, Limitations, Revamping Objectices/Significance Need to Improve the Working of PDS ■ Functioning - Fair Price Shops, FCI, Ration Measures to Improve the Loopholes & Cards, Aadhar Linking, etc. Lacunaes Associated with PDS Shortcomings or Problems Associated with Steps Taken by Government in this Regard **PDS Issues of Buffer Stocks & Food Security** Buffer Stock - Objectives & Norms in India Need for Food Security ■ Impact of Government Procurement & NFSM And othe Food Security Realted Distribution Government Initiatives **Economics of Animal-Rearing** Food Processing & Related Industries in India Upstream & Downstream Requirements Scope & Potential in India Significance Supply Chain Management Location Government Policies and Initiatives -Constraints and Challenges 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	
AntacidAntihistamines	Glass	
Neurologically Active DrugsTranquilizers	Water Softener	
AnalgesicsAntimicrobials	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 & Developing New Technology		
 IT & Computers Space Nanotechnology Biotechnology 	RoboticsDefenceNuclear	
Awareness in Different Fields		
 IT & Computers Space Nanotechnology Biotechnology 	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

2010		
Conservation		
What is Biodiversity?	Conservation	
Types of Biodiversity - Genetic, Species,	■ In-situ & Ex-Situ	
Ecosystem, etc.	■ Eco-S <mark>ensiti</mark> ve Areas	
	■ Ecological Hotspots	
Importance of Biodivesirty - Ecosystem Services, Bio Resources of Economic	 National Guidelines, Legislations & Other Programmes. 	
Importance, Social Benefits etc.	 International Agreements & Groupings 	
importance, octar benefits etci	- international Agreements & Groupings	
Resasons for Loss of Biodiversity		
Environmental Pollution & Degradation		
Types of Pollution & Pollutants	Causes/Sources of Pollution & Degradation	
Impact of Pollution & Degradation	Prevention & Control of Pollution &	
	Degradation	
 Ozone Layer Depletion and Ozone Hole 		
 Greenhouse Gas Effect & Global Warming Eutrophication 	National Environment Agencies, Legislations and Policies	
Desertification	and Foncies	
Acid Rain	International Environment Agencies &	
Hazardous Waste, etc.	Agreements	
Environmental Impa	ct Assessment (EIA)	
■ What is EIA?	 Need & Benefits of EIA 	
 Indian Guidelines & Legislations 	Shortcomings of EIA in India	
■ EIA Process	 Measures to Make EIA Effective 	
Disaster Management		
■ Types of Disasters	 Community Level Disaster Management 	
Management of Disasters	Governement Initiatives on Disaster	
	Management	

SECURITY

Linkages Between Developn	nent & Spread of Extremism
 Factors Responsible for Spread of Extremism Steps that State can Taken to Reduce the Spread of Extremism due to Underdevelopment 	• Naxalism
Role of External State & Non-State Actors	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	Institutional Framework to Tackle Challenge of Internal Security In NIA In NATGRID In MAC In UAPA In TADA In POTA In NCTC
State Sponsored Terrorism	nore .
Challenges to Internal Security T	nrough Communication Networks
 Role of Media & Social Networking Sites in Internal Security Challenges Challenges in Managing Social Media 	Steps That can be Taken
Basics of Cy	ber Security
Cyber SecurityThreats to Indian Cyber SecuritySteps taken by India	 International Cooperation on Cyber Security Cyber Warfare Terms Associated with Cyber Security
Money-Laundering	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 N	Management in Border Areas
 Challenges in Managing Border Security – Coastal & Terrestrial Land Boundary Disputes with Neighbours 	 India's Policy in Border Area Security Management
Linkages of Organized	Crime with Terrorism
 Types of Organised Crime Challenges in Controlling Organised Crime 	 Indian Context – Link between Organised Crime & Terrorism
Various Security Forces &	Agencies & Their Mandate
 Central Armed Police Forces Central Paramilitary Forces 	Security & Intelligence Agencies – IB. R&WA, etc.

