

General Studies- III Detailed Syllabus (Technology, Economic Development, Bio-diversity, Environment, Security and Disaster Management)

	EVELOPMENT	
Indian Economy & Issues Relating to Planning, Mobilization of Resources, Growth, Development & Employment		
Topics	Focus areas	
Indian Economy and issues relating to Planning, Mobilization of Resources, Growth, Development and Employment. Civils Cafe IA YOUR RANK IS O	 Planning Meaning of Planning 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 Determinants of Growth & Development Importance & Limitations of Economic 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

Inclusive Growth and 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 **BudgetCentre-State Relations**
- YOUR RANK IS OUR FRevenue Account Revenue Receipts & Revenue Expenditure
 - Capital Account Capital Receipts & Capital Expenditure
 - > Changes in Budgetary Process in

2017

- > Measures of Government Deficit
 - Revenue Deficit
 - Fiscal Deficit
 - Primary Deficit
- > Fiscal Policy
- > Deficit Reduction
- > FRBM Act
- Other Types of Budgets Outcome, Zero-Based, etc.

Government Budgeting.

I and Defor	ms in India
Lanu Reior	Rationale for Land Reforms
	Components of Land Reforms Impact of Land Reforms
Land Reforms in India.	Impact of Land Reforms
	Problems in Implementaion of Land
	Reforms
	 Success of Land Reforms
	 Recent Initiatives - Land Leasing, Land
	Acquisition, Rehabilitation & Resettlement
	Act, etc.
	ation on the Economy
Effects of Liberalization on the Economy,	 Phase of Liberalisation
Changes in Industrial Policy and their Effects	 Impact on Different Sectors of the
on Industrial Growth.	Economy
Changes In Industrial Policy &	their Effects on Industrial Growth
	 Industrial Policy Before 1991
	 Industrial Policy After 1991
	 Phases of Industrial Growth
Effects of Liberalization on the Economy,	 Linkage Between Economic Reforms and
Changes in Industrial Policy and their	Economic Outcomes
	 Weaknesses and Failures of Industrial
Effects on Industrial Growth.	Policies
	 National Manufacturing Policy
	■ SEZs
	Make in India
Infra	structure
	Energy
Infrastructure: Energy, Ports, Roads,	Ports
Airports, Railways etc.	Roads
All ports, Kallways etc.	Airports
Civils Caté I A	Railways TV (117C)
Investme	nt Models
YOUR RANK IS O	Need for Investment
	> Sources of Investment
	Types of Investment Models
	Domestic Investment Models
	Public Investment Model
	 Private Investment Model
	 Public Private Participation
Investment Models.	Investment Model
	Foreign Investment Models:
	• FDI
	• FII, etc.
	Sector Specific Investment Models
	 Cluster Based Investment Models
	> Investment Models Followed by
	India

AGRICULTURE		
	in Various Parts of the Country	
Topics	Focus areas	
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	 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 Irrigatio	n & Irrigation Systems Storage	
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	 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 	
	cultural Produce & Issues & Related	
(Con	straints	
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	 Process of Agricultural Marketing - Marketing Channels, Functionaries, Costs, etc. Role of FCI Regulated Markets Warehousing Cooperative Marketing Shortcomings of Current Agricultural Marketing Process APMCs National Agricultural Market (NAM) Farmer Producer Organisations (FPO) Contract Farming Futures Trading in Agricultural Commodities 	
	Farmers, Technology Missions	
	ct Farm Subsidies & Minimum Support	
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.	 Agricultural Pricing Policy Rationale for Subsidies Types of Subsidies Effectiveness, Extent & Problems of Subsisies Clash with WTO Agreements 	

Public Distribution System Objectives, Functioning, Limitations, Revamping

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.

- Objectices/Significance
- Functioning Fair Price Shops, FCI, Ration Cards, Aadhar Linking, etc.
- Shortcomings or Problems Associated with PDS
- Need to Improve the Working of PDS
- Measures to Improve the Loopholes & Lacunaes Associated with PDS
- Steps Taken by Government in this Regard

Issues of Buffer Stocks & Food Security

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.

- Buffer Stock Objectives & Norms in India
- Impact of Government Procurement &
 Distribution
- Need for Food Security
- NFSM And othe Food Security Realted Government Initiatives

Economics of Animal-Rearing

Food Processing & Related Industries in India

Food Processing and Related Industries in India- Scope' and Significance, Location, Upstream and Downstream Requirements, Supply Chain Management.

- Scope & Potential in India
- Significance
- Location
- Constraints and Challenges
- Upstream & Downstream Requirements
- Supply Chain Management
- Government Policies and Initiatives SAMPADA, 12th FYP, etc.

SCIENCE & TECHNOLOGY Developments & their Applications & Effects in Everyday Life Topics Focus areas > Chemicals in Food • Artificial Sweetening Agents Food Preservatives > Drugs Antacid Science and Technology- Developments Antihistamines and their Applications and Effects in Neurologically Active Drugs Everyday Life. Tranquilizers Analgesics Antimicrobials Antibiotics Antiseptic and Disinfectant • Anti-Fertility Drugs, etc.

	> Cleansing Agents
	• Soaps
	Synthetic detergents
	> Glass
	> Water Softener
	Water Purification/Disinfection
	Microwave Oven, etc.
Achievements of Indians	in Science & Technology
	 Chandrasekhara Venkata Raman
	 Acharya Jagadish Chandra Bose
	 Satyendra Nath Bose
	Meghnad Saha
Achievements of Indians in Science &	 Homi Jehangir Bhabha
	 Subrahmanyan Chandrasekhar
Technology; Indigenization of Technology	A.P.J. Abdul Kalam
and Developing New Technology.	 Vikram Sarabhai
	 Mokshagundam Visvesvaraya
	Har Gobind Khorana
	Tessy Thomas
Vi,	C.N.R. Rao
Indigenization of Technology	& Developing New Technology
	IT & Computers
	■ Space
Achievements of Indians in Science &	 Nanotechnology
Technology; Indigenization of Technology	Biotechnology
and Developing New Technology.	Robotics
	Defence
	 Nuclear
Awareness in	Different Fields
	 IT & Computers
Awareness in the fields of IT, Space,	Space 11 dv Circle
Computers, Robotics, Nano-	 Nanotechnology
technology, Bio-technology and issues	 Biotechnology Robotics
relating to Intellectual Property Rights	Defence
l	■ Nuclear
Issues Relating to Inte	llectual Property Rights
	Need for Intellectual Property Rights
	Types of IPR
Awareness in the fields of IT, Space,	■ IPR Regime in India
Computers, Robotics, Nano-	 International Agreements Related to IPRs
technology, Bio-technology and issues	Geographical Indicators
relating to Intellectual Property Rights	Recent Issues - Evergreening,
a simily is missional in openly ringino	Compusiory Licensing, Prominent Cases
	etc.
	CIC.

	Y & ENVIRONMENT
	servation
Conservation, Environmental Pollution and Degradation, Environmental Impact Assessment.	Focus areas > What is Biodiversity? > Types of Biodiversity – Genetic, Species, Ecosystem, etc. > Importance of Biodivesirty – Ecosystem Services, Bio Resources of Economic Importance, Social Benefits etc. > Resasons for Loss of Biodiversity > Conservation • In-situ & Ex-Situ • Eco-Sensitive Areas • Ecological Hotspots • National Guidelines, Legislations & Other Programmes. • International Agreements & Groupings
Environmental Pollu	ution & Degradation
Conservation, Environmental Pollution and Degradation, Environmental Impact Assessment. YOUR RANK IS O	 Types of Pollution & Pollutants Impact of Pollution & Degradation Ozone Layer Depletion and Ozone Hole Greenhouse Gas Effect & Global Warming Eutrophication Desertification Acid Rain Hazardous Waste, etc. Causes/Sources of Pollution & Degradation Prevention & Control of Pollution & Degradation National Environment Agencies, Legislations and Policies International Environment Agencies & Agreements
Conservation, Environmental Pollution and Degradation, Environmental Impact Assessment.	 Pact Assessment (EIA) What is EIA? Indian Guidelines & Legislations EIA Process Need & Benefits of EIA Shortcomings of EIA in India Measures to Make EIA Effective

Disastar	Management
Disaster and Disaster Management.	 Types of Disasters Management of Disasters Community Level Disaster Management Governement Initiatives on Disaster Management CURITY pment & Spread of Extremism Focus areas
Linkages between Development and Spread of Extremism.	 Factors Responsible for Spread of Extremism Steps that State can Taken to Reduce the Spread of Extremism due to Underdevelopment Naxalism
1 / 7 / 7	actors in Creating Challenges to Internal curity
Role of External State and Non-state Actors in creating challenges to Internal Security. YOUR RANK IS O	 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 NIA
Challenges to Internal Security Through Communication Networks	
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.	 Role of Media & Social Networking Sites in Internal Security Challenges Challenges in Managing Social Media Steps That can be Taken

Basics of Cyber 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.

- Cyber Security
- Threats to Indian Cyber Security
- Steps taken by India
- International Cooperation on Cyber Security
- Cyber Warfare
- Terms Associated with Cyber Security

Money-Laundering & its Prevention

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.

- 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 Management in Border Areas

Security Challenges and their Management in Border Areas - Linkages of Organized Crime with Terrorism.

- 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

Security Challenges and their Management in Border Areas - 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

Various Security Forces and Agencies and their Mandate.

- Central Armed Police Forces
- Central Paramilitary Forces
- Security & Intelligence Agencies IB. R&WA, etc.