

APSC MAINS GS-3 SYLLABUS



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, Nanotechnology, Bio-technology and issues relating to Intellectual Property Rights.
- Disaster and Disaster Management with emphasis on Assam

- 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 with emphasis on Assam.
- Various Security Forces and Agencies and their Mandate.

ECONOMIC DEVELOPMENT

Indian Economy & Issues Relating to Planning, Mobilization of Resources, Growth, Development & Employment

 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
	 Meaning of Development &
Growth & 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

- What is Inclusive Growth?
- Elements of Inclusive Growth
- Need for Inclusive Growth
- Indicators of Inclusive Growth
- Challenges in Achieving 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

Components of the Government Budget	 Revenue 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.		
LAND REFORMS IN INDIA		
 Rationale for Land Reforms Components of Land Reforms Impact of Land Reforms Problems in Implementation of Land Reforms Success of Land Reforms Recent Initiatives - Land Leasing, Land Acquisition, Rehabilitation & Resettlement 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
- Industrial Policy After 1991
- Phases of Industrial Growth
- Linkage Between Economic Reforms and Economic Outcomes
- Weaknesses and Failures of Industrial Policies
- National Manufacturing Policy
- SEZs
- Make in India

INFRASTRUCTURE

- Energy
- Ports
- Roads
- Airports
- Railways

INVESTMENT MODELS

Need for Investment

Sources of Investment

Types of Investment	 Domestic Investment Models Public Investment Model Private Investment Model Public Private Participation Investment Model Foreign Investment Models: FDI FII, etc. Sector Specific Investment
Models	Models Cluster Based Investment Models

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
- 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

E-TECHNOLOGY IN THE AID OF FARMERS, TECHNOLOGY MISSIONS

ISSUES RELATED TO DIRECT & INDIRECT FARM SUBSIDIES & MINIMUM SUPPORT PRICES

- Agricultural Pricing Policy
- Rationale for Subsidies
- Types of Subsidies

- Effectiveness, Extent & Problems of Subsidies
- Clash with WTO Agreements

PUBLIC DISTRIBUTION SYSTEM OBJECTIVES, FUNCTIONING, LIMITATIONS, REVAMPING

- Objectives/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 & Lacunae Associated with PDS
- Steps Taken by Government in this Regard

ISSUES OF BUFFER STOCKS & FOOD SECURITY

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

ECONOMICS OF ANIMAL-REARING

FOOD PROCESSING & RELATED INDUSTRIES IN INDIA

- 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

Chemicals in Food	 Artificial Sweetening Agents Food Preservatives
Drugs	 Antacid Antihistamines Neurologically Active Drugs 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
- Homi Jehangir Bhabha
- Subrahmanyan Chandrasekha
- A.P.J. Abdul Kalam
- Vikram Sarabhai
- Mokshagundam Visvesvaraya
- Har Gobind Khorana
- Tessy Thomas
- C.N.R. Rao

INDIGENIZATION OF TECHNOLOGY & DEVELOPING NEW TECHNOLOGY

- IT & Computers
- Space Nanotechnology
- Biotechnology
- Robotics
- Defence
- Nuclear

AWARENESS IN DIFFERENT FIELDS

- IT & Computers
- Space missions like Gaganyaan mission
- Nanotechnology

- Robotics
- DefenceNuclear

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, Compulsory Licensing, Prominent Cases etc.

BIODIVERSITY & ENVIRONMENT

Conservation

What is Biodiversity?

Types of Biodiversity - Genetic, Species, Ecosystem, etc.

Importance of Biodiversity – Ecosystem Services, Bio Resources of Economic Importance, Social Benefits etc.

Reasons for Loss of Biodiversity

Conservation	 In-situ & Ex-Situ Eco-Sensitive Areas Ecological Hotspots National Guidelines, Legislations & Other Programmes. International Agreements & Groupings
ENVIRONMENTAL POLLUTION & DEGRADATION	
Types of Pollution & Pollutants	
Impact of Pollution &	 Ozone Layer Depletion and
Degradation	Ozone Hole • Greenhouse Gas Effect & Global Warming • Eutrophication • Desertification • Acid Rain • Hazardous Waste, etc.
Degradation Causes/Sources of Pollu	 Greenhouse Gas Effect & Global Warming Eutrophication Desertification Acid Rain Hazardous Waste, etc.

International Environment Agencies & Agreements

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

- What is EIA?
- Indian Guidelines & Legislations
- EIA Process
- Need & Benefits of EIA
- Shortcomings of EIA in India
- Measures to Make EIA Effective

DISASTER MANAGEMENT

- Types of Disasters
- Management of Disasters
- Community Level Disaster Management
- Government Initiatives on Disaster Management with emphasis on Assam

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

ROLE OF EXTERNAL STATE & NON-STATE ACTORS IN	
CREATING CHALLENGES TO INTERNAL SECURITY	
Threats from Non-State	• J&K Separatism
Actors	• 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	• NIA
Tackle Challenge of Internal	• NATGRID
Security	• MAC
	• UAPA
	• TADA
	• POTA
	•NCTC
CHALLENGES TO INTERNAL SECURITY THROUGH COMMUNICATION NETWORKS	
 Role of Media & Social Networking Sites in Internal Security 	
Challenges	

- Challenges in Managing Social Media
- Steps That can be Taken

ROLE OF EXTERNAL STATE & NON-STATE ACTORS IN CREATING CHALLENGES TO INTERNAL 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-LAUNDERING & 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

- 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 WITH EMPHASIS ON ASSAM

- Types of Organised Crime
- Challenges in Controlling Organised Crime
- Indian Context Link between Organised Crime & Terrorism

- Naxal issues
 - -History of Naxal movement
 - -Recent developments
- Insurgency in North East India
 - -Issues and conflicts
 - -ULFA and Assam
 - -Naga issue etc.

VARIOUS SECURITY FORCES & AGENCIES & Their Mandate

- Central Armed Police Forces

 Assam Rifles, BSF, ITBP, CISF, CRPF, NSG, SSB
- Central Paramilitary Forces
- Security & Intelligence Agencies IB. R&WA, etc.