

ANSWER WRITING MENTORSHIP PROGRAMME

GS MAINS Q&A

COMPLETE GS MAINS & ESSAY *through*
TEST SERIES, CONCEPT CLASSES
& MENTORSHIP



CONCEPT CLASSES

- 100⁺ Hrs. (50+ Classes) for Concept Building
- 150⁺ Hrs. Mains Updation Classes after Prelims

GRADUAL ASSESSMENT



- 5 Level of Test for Gradual Improvement.
 - LEVEL-1 Answer Writing Skilling sessions
 - LEVEL-2 57 Topical Test (5 Questions)
 - LEVEL-3 11 Revision Test (10 questions)
 - LEVEL-4 6 Applied Test (20 Questions)
 - LEVEL-5 8 Full Mock Test (20 Questions)
- 6 Essay Test (8 Topics Each)
- Test Discussion after Test followed by One-to-One doubt clearing session.



MENTORSHIP

- Personalised Mentorship for Conceptual Clarity
- Post Test Doubt Clearing Session for Marks Improvement

BATCH STARTS

30
JUNE
2025

Scan QR Code
for more details



PROGRAMME FEE

PROGRAMME: 1

TOPICAL+ REVISION + MOCK TEST
₹ 28,000/- (+GST)

PROGRAMME: 2

TOPICAL + REVISION TEST
₹ 25,000/- (+GST)



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PROGRAMME APPROACH

Preparing for the UPSC Civil Services Examination (CSE) is an extensive journey that requires continuous validation of learning and refinement of strategies. GS MAINS Q&A is a comprehensive programme meticulously designed to meet every facet of preparation through concept building, skill development, gradual assessment and personalized mentorship. This program serves as a dynamic companion, empowering you for self-study while providing essential guidance to navigate through the complexities of the UPSC CSE.

PROGRAMME COMPONENT



Complete GS Mains Coverage



Concept Building classes



Gradual Assessment and Improvement



Answer Writing Practice & Skilling



Personalised Mentorship



Mains Updation Classes

PROGRAMME OUTCOME



Boosted confidence for mains readiness



Strong conceptual understanding



Steady Preparation Progress & Preparation Survival



Effective Answer Articulation



Continuous Performance Enhancement



Current Affairs Updation

PROGRAMME DELIVERY

1 STUDY TARGET & PLANNER

Subject wise study targets and planner including micro listing of the topics of the tests to track the coverage of entire mains syllabus.

2 ANSWER WRITING SKILLING

Sessions to understand & practice to acquire key skills of Answer writing.

3 CONCEPT CLASSES

High utility classes for approach & Conceptual clarity of the subject. It will include detailed schema, strategy and PYQ trend of the Subject.

4 TEST & ANSWER WRITING PRACTICE

Total 80 Tests including:

- ❑ 57 Topical Tests (5 Questions)
- ❑ 11 Revision Tests (10 Questions)
- ❑ 6 Applied Tests (After Prelims)
- ❑ 8 Mocks (After Prelims)

5 DETAILED TEST DISCUSSION

Each test will be followed by test discussion, designed to help in concept building and Value Addition on other related topics. It is an ultimate approach for complete revision.

6 PERSONAL MENTORING

Mentorship and doubt clearing session after each tests with respective Faculty to provide relevant insights and feedback to each candidate as per his/her Performance.

7 VALUE ADDITION NOTES


Along with Model Answer of the Questions, Value Addition Notes on the Contemporary Topics.

8 MAINS UPDATION

150 hr. contemporary Issues classes after Prelims for Mains Updation.


TRUSTED BY TOPPERS

Over the time, thousands of our students have successfully cleared the UPSC CSE Mains Examination with the help of our programmes. Our IAS Topper Test Copy section on our website stands as a testament to this achievement, showcasing over 400 IAS Toppers Test Copies. To access these copies, simply click the link <https://iasscore.in/toppers-copy> or scan the QR code

“UPSC Style mock papers coupled with evaluation by faculty members of GS SCORE themselves enhanced my confidence to write answers as per the demand. I am thankful.”


SWATI SHARMA
(AIR-15, CSE, 2022)




“Answer Writing is always considered as a vital part for success in UPSC. GS SCORE helped me in building a strong and solid foundation for development of Answer Writing skills. Thank you!”

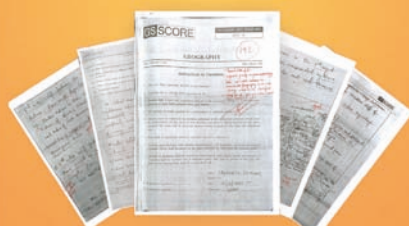
AMBIKA RAINA
(AIR-164, CSE, 2022)





“I am highly obliged towards GS SCORE for its best evaluation and assessment mechanism which helped me to crack UPSC in first attempt.”

YASHARTH SHEKHAR
(AIR-12, CSE, 2021)




“Managing sincere attempt while being in service of IPS was very tedious job. But GS SCORE helped me a lot in my smart preparation. I will always be thankful to Manoj Jha Sir for his mentoring.”

SHRUTI RAJALAKSHAMI
(AIR-25, CSE, 2021)



ANSWER WRITING SKILL DEVELOPMENT SESSIONS

It is important to understand the necessary skills required for answer writing before starting writing the tests. Answer Writing Skill Development Session will involve the Classroom/Live (Online) based learning of Key Skills which are necessary for writing answers in UPSC mains examination.

SESSIONS	THEME & DESCRIPTION	OUTCOME
SESSION-1	<ul style="list-style-type: none"> ▣ Introduction ▣ Clarity <ul style="list-style-type: none"> ▸ Its objective is to identify the Context and Key Demand of the Question 	<ul style="list-style-type: none"> ◉ Question Decipher ◉ Theme of the Question ◉ Identification of Keywords ◉ Abstract/Hidden Concepts ◉ Tonality of question
SESSION-2	<ul style="list-style-type: none"> ▣ Relevance <ul style="list-style-type: none"> ▸ Along with the identification of Context and Key Demand of the Question, relevant Dimensions and Examples are important 	<ul style="list-style-type: none"> ◉ Information Recall/Mental Framework <ul style="list-style-type: none"> ▸ Inference and deduction ▸ Articulation- Structure ◉ Organization
SESSION-3	<ul style="list-style-type: none"> ▣ Depth <ul style="list-style-type: none"> ▸ Critical analysis is important as it enhances understanding, strategy, and proficiency in answering, aiding exam success comprehensively 	<ul style="list-style-type: none"> ◉ Application of Concepts ◉ Analytical skills and Critical thinking
SESSION-4	<ul style="list-style-type: none"> ▣ Structure <ul style="list-style-type: none"> ▸ The order of arguments and logical co-relation ensures clarity, coherence, and effective communication, vital for showcasing knowledge and securing marks 	<ul style="list-style-type: none"> • Introduction of Answer • Different Parts of Answer • Body Part of The Answer • Key Directives & Tail Words • Conclusion of Answer • Bullet or Paragraph • Use of Sub-Heads • Flow chart, use of boxes and inter-linkages.
Note: Separate schedule will be provided for the sessions mentioned above for answer writing skill development.		

SESSION PLAN

DATE	TEST/SESSION NAME	TEST TOPICS
HISTORY		
30 JUNE, 2025	Concept Class: 01	<ul style="list-style-type: none"> Modern India + Culture
01 JULY, 2025	Concept Class: 02	<ul style="list-style-type: none"> Decline of Mughals Advent of Europeans Advent of Europeans
02 JULY, 2025	Concept Class: 03	<ul style="list-style-type: none"> Impact of British Administration The Revolt of 1857 Social Reform in British India
03 JULY, 2025	Concept Class: 04	<ul style="list-style-type: none"> Tribal Movements Pre Gandhi Era National Movements (Struggle by Masses)
04 JULY, 2025	Concept Class: 05	<ul style="list-style-type: none"> Independence Role of Press Education Peasant Movement
07 JULY, 2025	Topical Test: 01	<ul style="list-style-type: none"> Modern Indian History From About The Middle Of The Eighteenth Century Until The Present- Significant Events, Personalities, Issues
10 JULY, 2025	Topical Test: 02	<ul style="list-style-type: none"> The Freedom Struggle - Its Various Stages And Important Contributors / Contributions From Different Parts Of The Country
13 JULY, 2025	Topical Test: 03	<ul style="list-style-type: none"> Social reforms in British India

DATE	TEST/SESSION NAME	TEST TOPICS
16 JULY, 2025	Topical Test: 04	<ul style="list-style-type: none"> ◦ Struggle by Masses- Tribal, working class, peasant revolts, women leaders
17 JULY, 2025	Concept Class: 06	<ul style="list-style-type: none"> ◦ Approach to PIC
20 JULY, 2025	Topical Test: 05	<ul style="list-style-type: none"> ◦ Post-Independence Consolidation and ◦ Reorganization within the country.
21 JULY, 2025	Concept Class: 07	<ul style="list-style-type: none"> ◦ The Salient Aspects Of Art Forms, Literature And Architecture From Ancient To Modern Times
24 JULY, 2025	Topical Test: 06	<ul style="list-style-type: none"> ◦ The Salient Aspects Of Art Forms
27 JULY, 2025	Topical Test: 07	<ul style="list-style-type: none"> ◦ Literature And Architecture From Ancient To Modern Times.
28 JULY, 2025	Concept Class: 08	<ul style="list-style-type: none"> ◦ Industrial Revolution, ◦ World Wars ◦ Redrawal of National Boundaries, Colonization ◦ Decolonization, ◦ Political philosophies like Communism, Capitalism, and Socialism etc. — their forms and effect on the society.
31 JULY, 2025	Topical Test: 08	<ul style="list-style-type: none"> ◦ History of the World Will Include Events From 18th Century Such As Industrial Revolution, World Wars, Redrawal Of National Boundaries,
03 AUGUST, 2025	Topical Test: 09	<ul style="list-style-type: none"> ◦ Colonization, Decolonization, Political Philosophies Like Communism, Capitalism, Socialism Etc. - Their Forms And Effect On The Society.
06 AUGUST, 2025	Revision Test: 01	<ul style="list-style-type: none"> ◦ History Complete Syllabus
POLITY		
07 AUGUST, 2025	Concept Class: 09	<ul style="list-style-type: none"> ◦ Approach to Indian Polity & Constitution

DATE	TEST/SESSION NAME	TEST TOPICS
08 AUGUST, 2025	Concept Class: 10	<ul style="list-style-type: none"> ◦ Constitutional Development ◦ Preamble ◦ State and UTs ◦ Citizenship ◦ Amendment
09 AUGUST, 2025	Concept Class: 11	<ul style="list-style-type: none"> ◦ Fundamental Rights ◦ Directive Principles of State Policy ◦ Fundamental Duties ◦ Basic Structure
10 AUGUST, 2025	Concept Class: 12	<ul style="list-style-type: none"> ◦ Parliamentary System ◦ Federalism ◦ Centre- State Relations ◦ Emergency
11 AUGUST, 2025	Concept Class: 13	<ul style="list-style-type: none"> ◦ Executive and Legislature (Union & State) ◦ Anti-Defection Law ◦ UT, Schedule and Tribal Areas
12 AUGUST, 2025	Concept Class: 14	<ul style="list-style-type: none"> ◦ Judiciary and related issues, ◦ Tribunals ◦ Constitutional and Non Constitutional Bodies
13 AUGUST, 2025	Concept Class: 15	<ul style="list-style-type: none"> ◦ Local Bodies ◦ Election ◦ Special Provisions for various states ◦ Misc.
16 AUGUST, 2025	Topical Test: 10	<ul style="list-style-type: none"> ◦ Constitutional Development + Comparison with other constitution + System of government
19 AUGUST, 2025	Topical Test: 11	<ul style="list-style-type: none"> ◦ Preamble ◦ Union Territories ◦ Citizenship ◦ Fundamental Rights

DATE	TEST/SESSION NAME	TEST TOPICS
22 AUGUST, 2025	Topical Test: 12	<ul style="list-style-type: none"> ◦ DPSPs ◦ Fundamental Duties ◦ Amendment ◦ Basic Structure
25 AUGUST, 2025	Topical Test: 13	<ul style="list-style-type: none"> ◦ Union executives and legislature
28 AUGUST, 2025	Topical Test: 14	<ul style="list-style-type: none"> ◦ State executive and Legislature, ◦ Federal Structure and issues related to it, ◦ Emergency Provisions
31 AUGUST, 2025	Topical Test: 15	<ul style="list-style-type: none"> ◦ Local bodies, Scheduled areas
03 SEPTEMBER, 2025	Topical Test: 16	<ul style="list-style-type: none"> ◦ Constitutional bodies ◦ Non constitutional bodies
06 SEPTEMBER, 2025	Topical Test: 17	<ul style="list-style-type: none"> ◦ Judiciary + Elections + Political parties in India
09 SEPTEMBER, 2025	Revision Test: 02	<ul style="list-style-type: none"> ◦ Polity Complete Syllabus
ECONOMY		
10 SEPTEMBER, 2025	Concept Class: 16	<ul style="list-style-type: none"> ◦ Approach to Indian Economy
11 SEPTEMBER, 2025	Concept Class: 17	<ul style="list-style-type: none"> ◦ Basics of Economy ◦ Monetary Policy ◦ Banking ◦ Financial Market ◦ National Income
12 SEPTEMBER, 2025	Concept Class: 18	<ul style="list-style-type: none"> ◦ Public Finance ◦ Taxation ◦ Poverty ◦ Inclusive Growth
13 SEPTEMBER, 2025	Concept Class: 19	<ul style="list-style-type: none"> ◦ Planning ◦ Balance of Payment ◦ LPG Reforms ◦ Agriculture, food processing, and Land Reforms,

DATE	TEST/SESSION NAME	TEST TOPICS
14 SEPTEMBER, 2025	Concept Class: 20	<ul style="list-style-type: none"> ◦ Industry, ◦ Services, ◦ Employment
15 SEPTEMBER, 2025	Concept Class: 21	<ul style="list-style-type: none"> ◦ External Sector ◦ Trade, Infrastructure, ◦ Investment Models, ◦ International Bodies
18 SEPTEMBER, 2025	Topical Test: 18	◦ Basics of Indian economy
21 SEPTEMBER, 2025	Topical Test: 19	◦ Money, Banking and Finance
24 SEPTEMBER, 2025	Topical Test: 20	◦ Public Finance
27 SEPTEMBER, 2025	Topical Test: 21	◦ Sectors of Indian Economy
30 SEPTEMBER, 2025	Topical Test: 22	◦ Foreign Trade, Foreign Capital & Agriculture
03 OCTOBER, 2025	Topical Test: 23	◦ Human Development and Inclusive Growth
06 OCTOBER, 2025	Revision Test: 03	◦ Economy Complete Syllabus
GEOGRAPHY		
07 OCTOBER, 2025	Concept Class: 22	◦ Approach to Geography
08 OCTOBER, 2025	Concept Class: 23	<ul style="list-style-type: none"> ◦ Origin of Earth ◦ Geomorphology
09 OCTOBER, 2025	Concept Class: 24	◦ Climatology
10 OCTOBER, 2025	Concept Class: 25	<ul style="list-style-type: none"> ◦ Oceanography ◦ Bio Geography
13 OCTOBER, 2025	Topical Test: 24	◦ Geomorphology, Oceanography
16 OCTOBER, 2025	Topical Test: 25	◦ Climatology, Biogeography
17 OCTOBER, 2025	Concept Class: 26	◦ Indian Geography
20 OCTOBER, 2025	Topical Test: 26	◦ Indian Physical Geography
23 OCTOBER, 2025	Topical Test: 27	◦ Indian Agriculture

DATE	TEST/SESSION NAME	TEST TOPICS
24 OCTOBER, 2025	Concept Class: 27	<ul style="list-style-type: none"> ◦ Economic Geography ◦ Agriculture ◦ Human Geography
27 OCTOBER, 2025	Topical Test: 28	<ul style="list-style-type: none"> ◦ Key Natural Resources and Industries Across The World and India
30 OCTOBER, 2025	Topical Test: 29	<ul style="list-style-type: none"> ◦ Demography, Census, Settlement, Migration and Human Development
02 NOVEMBER, 2025	Revision Test: 04	<ul style="list-style-type: none"> ◦ Geography Complete Syllabus
GOVERNANCE		
03 NOVEMBER, 2025	Concept Class: 28	<ul style="list-style-type: none"> ◦ Approach to Governance
04 NOVEMBER, 2025	Concept Class: 29	<ul style="list-style-type: none"> ◦ Transparency ◦ Accountability ◦ E-governance ◦ Citizen Charter ◦ Role of Civil Services in Democracy, ◦ Welfare schemes, Poverty, Hunger etc
07 NOVEMBER, 2025	Topical Test: 30	<ul style="list-style-type: none"> ◦ Basics of Governance, Transparency & Accountability
09 NOVEMBER, 2025	Topical Test: 31	<ul style="list-style-type: none"> ◦ Role of civil services in a democracy, Regulatory Structure and Governance Reforms, Government policies and interventions for development in various sectors and issues arising out of their design and implementation
11 NOVEMBER, 2025	Topical Test: 32	<ul style="list-style-type: none"> ◦ Development processes and the development industry- the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders.
13 NOVEMBER, 2025	Revision Test: 06	<ul style="list-style-type: none"> ◦ Governance Complete Syllabus
ETHICS		
14 NOVEMBER, 2025	Concept Class: 30	<ul style="list-style-type: none"> ◦ Approach Ethics

DATE	TEST/SESSION NAME	TEST TOPICS
15 NOVEMBER, 2025	Concept Class: 31	◉ Ethics and Human Interface
16 NOVEMBER, 2025	Concept Class: 32	◉ Ethics And Governance
17 NOVEMBER, 2025	Concept Class: 33	◉ Applied Ethics
18 NOVEMBER, 2025	Concept Class: 34	◉ Approach to Case Studies
21 NOVEMBER, 2025	Topical Test: 33	◉ Ethics and Human Interface
24 NOVEMBER, 2025	Topical Test: 34	◉ Human Values
27 NOVEMBER, 2025	Topical Test: 35	◉ Aptitude and Foundational Value for Civil Services
30 NOVEMBER, 2025	Topical Test: 36	◉ Probity in Governance & Philosophical Basis of Governance Ethics in Administration
03 DECEMBER, 2025	Topical Test: 37	◉ Case Study
06 DECEMBER, 2025	Revision Test: 03	◉ Ethics Complete Syllabus
ESSAY		
07 DECEMBER, 2025	Concept Class: 35	◉ Drawing Big Picture and Brain Stormi
08 DECEMBER, 2025	Concept Class: 36	◉ Critical Thinking, Effective Communication and Structuring of Essay
09 DECEMBER, 2025	Concept Class: 37	◉ Context and Perspective Setting
10 DECEMBER, 2025	Topical Test: 38	◉ Essay- Philosophical Topics 1
11 DECEMBER, 2025	Topical Test: 39	◉ Essay- Philosophical Topics 2
12 DECEMBER, 2025	Concept Class: 38	◉ How to write Contemporary Essay
13 DECEMBER, 2025	Concept Class: 39	◉ Common Mistake Discussion
14 DECEMBER, 2025	Topical Test: 41	◉ Essay- Contemporary Topics 1
15 DECEMBER, 2025	Topical Test: 41	◉ Essay- Contemporary Topics 2
ENVIRONMENT		
16 DECEMBER, 2025	Concept Class: 40	◉ Approach to Environment & Ecology

DATE	TEST/SESSION NAME	TEST TOPICS
17 DECEMBER, 2025	Concept Class: 41	<ul style="list-style-type: none"> ◦ Ecology and its dynamics ◦ Biogeochemical Cycles ◦ Biomes
18 DECEMBER, 2025	Concept Class: 42	<ul style="list-style-type: none"> ◦ Pollution & Degradation ◦ Biodiversity ◦ Conservation
19 DECEMBER, 2025	Concept Class: 43	<ul style="list-style-type: none"> ◦ Climate Change ◦ Conservation efforts: India and World ◦ Environmental Governance ◦ Environmental laws, bodies, conventions and policies & Environmental Impact Assessment
22 DECEMBER, 2025	Topical Test: 42	<ul style="list-style-type: none"> ◦ Environment & ecology
24 DECEMBER, 2025	Topical Test: 43	<ul style="list-style-type: none"> ◦ Environmental pollution
27 DECEMBER, 2025	Topical Test: 44	<ul style="list-style-type: none"> ◦ Biodiversity, climate change
30 DECEMBER, 2025	Topical Test: 45	<ul style="list-style-type: none"> ◦ Environmental governance
03 JANUARY, 2026	Revision Test: 07	<ul style="list-style-type: none"> ◦ Environment & Ecology Complete Syllabus
SCIENCE & TECHNOLOGY		
04 JANUARY, 2026	Concept Class: 44	<ul style="list-style-type: none"> ◦ Approach to Science tech
05 JANUARY, 2026	Concept Class: 45	<ul style="list-style-type: none"> ◦ Science & Tech Developments & Their Applications and Effects in Everyday Life
08 JANUARY, 2026	Topical Test: 46	<ul style="list-style-type: none"> ◦ Biotechnology, Nano Technology, Intellectual Property Rights,
11 JANUARY, 2026	Topical Test: 47	<ul style="list-style-type: none"> ◦ Computer and IT, AI, Robotics, Space, Defence
14 JANUARY, 2026	Topical Test: 48	<ul style="list-style-type: none"> ◦ Contribution of Indians in Science & Technology, Application of Science and Tech in everyday life
17 JANUARY, 2026	Revision Test: 08	<ul style="list-style-type: none"> ◦ Science & Tech Complete Syllabus

DATE	TEST/SESSION NAME	TEST TOPICS
INTERNAL SECURITY		
18 JANUARY, 2026	Concept Class: 46	<ul style="list-style-type: none"> Approach to Internal Security
21 JANUARY, 2026	Topical Test: 49	<ul style="list-style-type: none"> Linkages between Development and Spread of Extremism+ Role of External State and Non-state Actors in creating challenges to Internal Security+ Linkages of Organized Crime with Terrorism
23 JANUARY, 2026	Topical Test: 50	<ul style="list-style-type: none"> 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.
25 JANUARY, 2026	Topical Test: 51	<ul style="list-style-type: none"> Security Challenges and their Management in Border Areas + Various Security Forces and Agencies and their Mandate
27 JANUARY, 2026	Revision Test: 09	<ul style="list-style-type: none"> Internal Security Complete Syllabus
INTERNATIONAL RELATIONS		
28 JANUARY, 2026	Concept Class: 47	<ul style="list-style-type: none"> Approach to International Relations
29 JANUARY, 2026	Concept Class: 48	
31 JANUARY, 2026	Topical Test: 52	<ul style="list-style-type: none"> India and its neighbourhood- relations
03 FEBRUARY, 2026	Topical Test: 53	<ul style="list-style-type: none"> Bilateral, regional and global groupings and agreements involving India and/or affecting India's interests
06 FEBRUARY, 2026	Topical Test: 54	<ul style="list-style-type: none"> Effect of policies and politics of developed and developing countries on India's interests, Indian Diaspora, Important International institutions, agencies and forums - their structure, mandate

DATE	TEST/SESSION NAME	TEST TOPICS
08 FEBRUARY, 2026	Revision Test: 10	<ul style="list-style-type: none">International Relations Complete Syllabus
SOCIETY		
09 FEBRUARY, 2026	Concept Class: 49	<ul style="list-style-type: none">Basics of Society and Social Justice
10 FEBRUARY, 2026	Concept Class: 50	
13 FEBRUARY, 2026	Topical Test: 55	<ul style="list-style-type: none">Salient Features of Indian SocietyDiversity of IndiaEffects of Globalization on Indian Society
16 FEBRUARY, 2026	Topical Test: 56	<ul style="list-style-type: none">Communalism, Regionalism & SecularismRole of Women and Women's OrganizationUrbanization, Their Problems and their remedies.
19 FEBRUARY, 2026	Topical Test: 57	<ul style="list-style-type: none">Social EmpowermentPopulation and Associated IssuesPoverty and Developmental Issues
22 FEBRUARY, 2026	Revision Test: 11	<ul style="list-style-type: none">Complete Society Syllabus
APPLIED GS TEST (AFTER PRELIMS)		
Test - 69	Indian Economy	
Test - 70	Polity & International Relations	
Test - 71	Governance & Society	
Test - 72	Science & Technology and Internal Security	
Test - 73	Environment & Disaster Management	
Test - 74	Applied Ethics	
MOCK TESTS (AFTER PRELIMS)		
Test - 75	Mock -1: GS Paper 1	
Test - 76	Mock -2: GS Paper 2	

DATE	TEST/SESSION NAME	TEST TOPICS
Test - 77	Mock -3: GS	Paper 3
Test - 78	Mock -4: GS	Paper 4
Test - 79	Mock -5:	Essay
Test - 80	Mock -6: GS	Paper 1
Test - 81	Mock -7: GS	Paper 2
Test - 82	Mock -8: GS	Paper 3
Test - 83	Mock -9: GS	Paper 4
Test - 84	Mock -10:	Essay

MICRO SUB TOPIC LISTING

HISTORY

TEST: 01 (HISTORY)

Topic:

- Modern Indian History From About The Middle Of The Eighteenth Century Until The Present- Significant Events, Personalities, Issues

■ Decline of Mughals

- Causes of the Decline of the Mughal Empire
- Aurangzeb and later Mughal rulers
- Society during early 18th century
- Rise of Regional States
- Bengal
- Hyderabad and Carnatic
- Awadh
- Mysore
- Kerala
- The Sikhs
- Rajput states and Jats
- Marathas

■ The Advent of Europeans In India

- The Portuguese in India
- De Almeida
- Albuquerque
- Causes of failure of Portuguese empire in India

- The Dutch in India
- The Danes in India
- The English
- The French
- Anglo-French Rivalry
- First Carnatic War
- Rise of the Hyderabad State
- The Second Carnatic War
- The Third Carnatic War
- Causes of English Success

■ Battle of Plassey and Buxar

- Black-hole Tragedy
- Battle of Plassey
- Mir Jafar
- Deposition of Mir Jafar
- Battle of Buxar
- Mir Kasim

■ BRITISH EXPANSION IN INDIA

- Bengal

- Anglo Maratha Wars
- The Subsidiary Alliance System
- Second Phase of British
- Expansion In India
- The Conquest of Sindh
- Anglo-Sikh Wars
- Doctrine of Lapse
- Annexation of Oudh

■ ADMINISTRATION BEFORE 1857

- The Dual System
- The Charter Acts
- Judicial System
- Impact of British Administration

■ ECONOMIC POLICIES OF THE BRITISH

- Phase of Mercantilism (1757-1813)
- Phase of Free Trade (1813- 1858)
- Phase of Finance Imperialism (1858 onwards)

■ IMPACT OF BRITISH ADMINISTRATION

- Industrialization—Ruin of Artisans and Handicrafts men
- Impoverishment of Peasantry
- Emergence of New Land Relations, Ruin of Old Zamindars
- Land Revenue Policy
- Impact of British Policy on Indian Economy
- Drain of Wealth Theory
- Stagnation and Deterioration of Agriculture
- Commercialization of Indian Agriculture
- Development of Modern Industry
- Rise of Indian Bourgeoisie
- Economic Drain
- Famine and Poverty
- Nationalist Critique of Colonial Economy
- Abolition of the Dual System

TEST: 02 (HISTORY)

Topic:

- The Freedom Struggle - Its Various Stages And Important Contributors /Contributions From Different Parts Of The Country

■ The Revolt of 1857

- Economic Causes
- Political Causes
- Administrative Causes
- Socio -Religious Causes
- Influence of Outside Events
- Discontent Among Sepoy's

- Beginning and Spread
- Leaders of the Revolt

■ Pre Gandhi Era

- Factors in the Growth of Modern Nationalism
- Political Associations Before the Indian National Congress
- Foundation of Indian National Congress

- Era of Militant Nationalism (1905-1909)
- The Swadeshi and Boycott Movement
- Annulment of Partition The Surat Split
- Home Rule League Movement
- Lucknow Session of the Indian National Congress (1916)

■ National Movements

- Beginning of the Gandhian Era
- Jallianwala Bagh Massacre
- Non-Cooperation Movement
- Communist Movement in India
- Swaraj Party
- Simon Commission
- Civil Disobedience Movement
- Round Table Conference

- The Communal Award
- Poona Pact

■ Various stag reedom Movement

- August Offer
- Individual Civil Disobedience
- Demand for Pakistan
- Cripps Mission
- Quit India Movement
- The CR Formula (1944)
- Gandhi-Jinnah Talks (1944)
- Desai-Liaquat Pact (1945)
- Wavell Plan and Simla Conference
- Contribution of various personalities towards freedom struggle

TEST: 03 (HISTORY)

Topic:

- Social reforms in British India

■ Social reforms in India

- Raja Ram Mohan Roy
- Swami Vivekananda
- Swami Dayananda Saraswati
- Ishwar Chandra Vidyasagar
- Jyotiba Phule
- Dr. Bhimrao Ramji Ambedkar
- Henry Vivian Derozio
- Debendranath Tagore
- Keshab Chandra Sen
- Sri Ramakrishna Paramhansa
- Mahadev Govind Ranade

- Theosophical Society And Annie Besant
- Syed Ahmad Khan
- Parsi Religious Reform Association
- Baba Dayal Das
- Pandita Ramabai
- Sarojini Naidu
- The Sikhs
- Rajput states and Jats
- Marathas

TEST: 04 (HISTORY)

Topic:

- Struggle by Masses- Tribal, working class, peasant revolts, women leaders

■ Tribal Movements

- Different Causes for Mainland and North-Eastern Tribal Revolts
- Characteristics of Tribal Revolts
- Important Tribal Movements of Mainland
- Pahariyas' Rebellion
- Chuar Uprising
- Kol Mutiny
- Ho and Munda Uprisings
- The Santhal Rebellion
- Khond Uprisings
- Koya Revolts
- Bhil Revolts
- Koli Risings
- Ramosi Risings
- Tribal Movements of the North-East
- Khasi Uprising
- Singphos Rebellion

■ Peasant Movement

- Champaran Satyagraha
- Kheda Peasant Struggle
- Bardoli Movement
- Moplah Rebellion
- Tebhaga Movement
- Telangana Movement

■ Women leaders

- Basanti Devi (1880 - 1974)

- Ashalata Sen (1894 - 1986)
- Sarojini Naidu (1879 - 1949)
- Aruna Asaf Ali (1909 - 1996)
- Bhikaiji Cama (1861 - 1936)
- Annie Besant (1847 - 1933)
- Begum Hazrat Mahal (1820 - 1879)
- Dr Lakshmi Sahgal (1914 - 2012)
- Ramadevi Choudhary (1899 - 1958)

■ Working class

- Rise of Working Class
- Industrialisation in India
- Workers' Movement in Pre-Independence India
- Workers' Movements before the Emergence of Trade Unions
- Initial Attempts to Improve Workers' Conditions:
- Workers' Movements before the Emergence of Trade Unions:
- Formation of Organisations
- Emergence and Growth of Trade Unions
- Strength and Weaknesses of the Movement

**TEST: 05
(HISTORY)****Topic:**

- Post-Independence Consolidation and
- Reorganization within the country.

■ Challenges before India after Independence

- Communal Riots and Regions most affected
- Partition and then Independence:
- Punjab, Bengal and Assam, Sindh
- Radcliffe Commission and challenges before boundary commission
- Radcliffe Commission and its composition
- Challenges before the Boundary Commission
- Drawbacks of Commission
- Division of sources
- Finances
- Defence personnel and equipment
- Civil government
- Assassination of Gandhi
- Resettlement and Rehabilitation of Refugees
- Shift to Constitutional Democracy
- Challenges after Independence

■ The Indian States

- Policy of Equal Federation (1935-1947)
- Plan of consolidation
- Integration of Princely States: Junagadh, Kashmir and Hyderabad
- Aftermath of Integration
- Goa and Pondicherry

- Tribal Integration
- Roots of India Tribal Policy
- Reasons for dismal performance of Tribal Policy
- Positive Development happened due to state's Initiative since 1947
- Issue of language
- The Official Language
- Features of Official Language Act

■ Framing of the Constitution of India

- Evolution of the Constitution and main provisions
- Steps to the Constitution
- Constitutional Developments
- The Indian Constitution: Main Provisions
- The Constituent Assembly
- Formation
- Compulsions and Issues in front of Assembly

■ From Colony to Democracy

- Challenge of building democracy
- Challenges before ECI and conduction of first general election
- Starting of one party dominance
- Dominance of Congress System
- Nature of Congress Dominance
- 1967 elections

- Split in the Congress
- Emergence of Opposition Parties
- Role of opposition parties
- Various opposition parties

■ Economic Consolidation

- Economic Development and Planning
- Ideas of Development
- Planning
- Formation of Planning Commission
- First five year plan
- Second five year plan
- Achievements of Plans from 1947 to 1965
- Key controversies regarding 5 year plans
- Green Revolution
- Prevailing Conditions before the introduction of Green Revolution
- Initiatives prior to Green Revolution to boost Agriculture
- Government's other positive initiative during Green Revolution Period
- Positive and negative impact of Green Revolution
- Operation Flood and Cooperatives
- Formation of Amul
- Starting and impact of Operation Flood
- Limitations of Co-operativization
- Development of land reforms in India between 1947 and early 1960's
- Abolition of intermediaries
- Tenancy reforms
- Ceiling on land holdings
- Bhoodan Movement
- Aims and advantages of Bhoodan movement

■ India's External Relations

- Evolution of India's Foreign Policy
- Strategic Issues
- Features of Indian Foreign Policy
- Emergence of NAM and its Summits
- Organizational structure & membership
- India and its neighbours
- India and China
- India and Pakistan (Indo-Pak War, Kargil War, Shimla Agreement, Tashkent Declaration and Agra Summit)
- India and Bangladesh (creation of Bangladesh)
- India and Sri Lanka
- India with Nepal and Bhutan
- India's relations with two countries of Bipolar world: USA and USSR
- Analysis of Nehruvian Foreign Policy

■ The Crisis of Democratic Order

- The JP movement and Emergency 1975-77: Testing of Indian democracy tested
- Background to emergency (Economic context, Gujarat and Bihar movements, Conflict with Judiciary)
- Declaration of emergency (Crisis and Response)
- Controversies regarding emergency
- Lessons from emergency
- Politics after Emergency (LS elections 1977 and Janata Party)
- The Opposition: Initial years of BJP
- The Naxalite Movement
- Communalism
- Secularism and democracy
- Ayodhya dispute: Demolition and after
- Communalism and use of state power

- Revival and growth of communalism
- Anti-muslim riots in Gujarat
- The Punjab Crisis
- Operation Blue Star
- Demand of Khalistan
- Basis of Regionalism: Politics in the states
- Roots of tension
- Challenges of Regionalism
- Tamil Nadu (Dravidian Movement), Andhra Pradesh, Assam, West Bengal and J&K (external and internal disputes)
- Secessionist movement in North-Eastern states
- Accommodation and National Integration

■ Popular Movements

- Nature of Popular Movements
- Environment Movements
- Chipko Movement
- Narmada Bachao Andolon (Sardar Sarovar Project, Debates and struggles)
- Party based Movement and Nonparty based movements
- Caste, Untouchability, Anti-caste politics and strategies
- Issues of Dalit

- Dalit panthers: Origin and their activities
- Agrarian Struggles
- Bharatiya Kisan Union: Growth and its characteristics
- National Fish Worker's Forum
- Anti-Arrack Movement: Origin and its linkage
- Indian Women since Independence
- Lesson from popular movements

■ Recent developments in Indian Politics

- Context of the 1990s
- Era of Coalition
- Decline of Congress
- Alliance politics
- Political Rise of other Backward Classes
- Mandal Implemented: The Mandal Commission
- Political fallouts
- NEP-1991, LPG policy, Tax reforms, Privatisation, globalisation and ICT
- Nuclear policy
- Emergence of new consensus
- LS elections 2004
- Terrorist troubles and relations with Pakistan

TEST: 06 (HISTORY)

Topic:

- The Salient Aspects Of Art Forms

■ Culture & Heritage of India

- Aims and objectives of performing arts and their development through various stages.
- Utility of performing arts during the

ancient and the medieval period.

- Appreciate the contribution of classical dances, folk music as well as folk dances in Indian culture and Challenges faced by performing Arts

- Development of drama through various phases in India and recognize the contribution of folk theatre
- Examine the importance of the three art forms in the development of human personality.
- Religious and secular Art in India

■ Dance

- Tracing Evolution of Dance (Rig Veda, Harappa, Nataraja)
- Classical Dances of India, their evolution and Theme
- Well known Classical dancers of India.
- Themes in Indian folk dances

■ Drama

- Introduction (Natyashastra)
- Evolution of Drama in India
- Various texts relating to Drama period wise (Mahabhasya, Mrichhakatika)
- Famous Modern Dramas and Dramatists.

■ Religious Philosophies

- Buddhism and its impact
- Jainism and its impact
- Sufism and its impact Vedanta Philosophy
- Bhakti Traditions

TEST:07 (HISTORY)

Topic:

- Literature And Architecture From Ancient To Modern Times.

■ Languages & Literature

- Vedic Literature
- Tamil language and Sangam Literature
- Classical languages : Evolution & impact on society
- Trends in Medieval Literature
- Modern Indian Literature

■ Visual and Performing Arts

- Architecture In India
- Architectural Style of Harappan Civilisation
- Influence of Buddhism and Jainism on Indian architecture
- Stupas, Chaityas and Viharas
- Impact of Persian and Greek invasion on Indian culture
- Mauryan Architecture (322-182 BC)

- Post Mauryan Architecture
- Gandhara and Mathura school of Art
- Cultural development during Gupta Age
- Temple Architecture and Sculptures
- Nagara and Dravida Styles
- Early Temples
- Rock Cut temples
- Monolithic Temples
- Free Standing Temples
- Pallavas as great temple builders
- Emergence of Nalanda as centre of learning
- Medieval Period architecture
- Delhi Sultanate
- Regional Kingdoms (Mandu, Jaunpur etc)
- Vijaynagara Architecture

- Mughal Architecture
- Evolution of temple construction in India
- Indo Islamic Architecture
- Colonial Architecture
- Utility of Architectural structures today and in Past
- Conservation and Preservation of Architectural Structures
- Spread of Indian Culture to Southeast Asia
- Bronze Sculptures In India
- Harappan "Dancing Girl"
- Jain Tirthankaras Bronze Images
- Buddha bronze Images (ex Guptas and Vakatakas)
- Pala school of Art (Bronze images, Manuscripts)
- Pallava Bronze Images
- Chola Bronzes
- Nataraja
- Paintings In India
- Prehistoric Rock Paintings
- Ancient Period
- Murals Paintings
- Bagh Caves
- Sittanavasal Paintings
- Armamalai caves
- Medieval Period
- Pala school of miniature paintings
- Mughal miniature paintings (synthesis of Indian and Persian style)
- Role of Akbar and his successors
- Development of Pahari, Rajput and Deccan Paintings
- Theme of paintings in Medieval period
- Modern Period
- Bengal school of Art
- Renaissance or revivalist painting
- Madras School of Art
- Decorative Art
- Madhubani
- Kalamkari
- Kalighat
- Warli
- Pattachitra
- Theme of decorative paintings in India
- Theatre Forms of India
- Significance of Traditional folk theatre in India
- Different forms of traditional folk theatre in India
- Sanskrit theatre in India
- Challenges faced by theatre in India
- Puppet forms in India
- Themes of puppetry in India
- Forms of Puppetry

TEST: 08 (HISTORY)

Topic:

- History of the World Will Include Events From 18th Century Such As Industrial Revolution, World Wars, Redrawal Of National Boundaries.

■ Industrial Revolution

- Decline of feudalism
- Beginning of Renaissance
- Pre-industrial Europe

- Factors that led to industrial revolution and its Impact

■ French Revolution

- Causes of the revolution in France
- France under Napoleon
- Impact and Significance of revolution

■ Nationalism in Europe

- Rise of the nation- state system
- Unification of Italy and Germany
- Colonialism and Imperialism

■ Emergence of USA

- Foundation of American Colonies
- The Independence of USA
- The American Revolutionary War and its impact
- Political Effects of the Revolution
- How did the American Revolution influence the French Revolution?

■ World War-I

- Causes and Course of the war
- Consequences of World War I
- Aftermath of World War I
- League of Nations

■ Russian Revolution

- Major events in pre-revolution Russia
- Causes and Course of revolution
- Consequences and Aftermath of the War
- Post-Lenin Russia

■ Inter War Years (1919 to 1939)

- The Great Depression- an economic perspective
- Rise of Fascism in Italy & Nazism in Germany
- Soviet Union (USSR)

■ World War- II

- Causes & Course of the war
- Aftermath & Analysis of the war
- Decolonization Phase

TEST: 09 (HISTORY)

Topic:

- Colonization, Decolonization, Political Philosophies Like Communism, Capitalism, Socialism Etc. - Their Forms And Effect On The Society.

■ Colonialism and its Analysis

- The age of Imperialism (1870-1914)
- Imperialism in Asia

■ Development In Middle East

- Democratic reforms in Middle East
- Arab nationalism
- Israel and Palestine

■ Communism, Socialism and Capitalism

- Capitalism (concept, types and example)
- Communism (concept, types, example)
- Relevance of capitalism in present era
- Socialism

POLITY

TEST: 10 (POLITY)

Topic:

- Modern Indian History From About The Middle Of The Eighteenth Century Until The Present- Significant Events, Personalities, Issues

■ Constitutional Development

- Importance of Constitution
- Historical evolution of the Constitution
- Constituent Assembly
- Objectives of the Constitution
- Salient features of Indian Constitution

■ Features of Indian Constitution

- Sources of the Constitution
- Salient features of the Constitution
- The Philosophy of the Constitution
- System of Government: Parliamentary & Presidential System
- Role of Convention under the Constitution
- Comparison between Judicial Review and Parliamentary Supremacy

■ Parliamentary System

- Features of Parliamentary Government
- Features of Presidential Government

- Merits of the Parliamentary System
- Demerits of the Parliamentary System
- Reasons for Adopting Parliamentary System
- Distinction between Indian and British Models

■ Comparison with other constitution

- Synthesis Of Parliamentary Sovereignty And Judicial Supremacy: Some Comparison
- Constitutional System in USA
- Constitutional System in UK
- Constitutional System in Russia
- Constitutional System in Switzerland
- Constitutional System in Germany
- Constitutional System in France
- The Constitution of South Africa
- The Constitution of Ireland
- The Constitution of Canada
- The Constitution of Japan

TEST: 11 (POLITY)

Topic:

- Preamble
- Union Territories
- Citizenship
- Fundamental Rights

■ Citizenship

- Meaning and Significance
- Constitutional Provisions
- Citizenship Act, 1955
- Single Citizenship
- Overseas Citizenship of India

■ State and UTs

- Union of States
- Parliament's Power to Reorganise the States
- Exchange of Territories with Bangladesh
- Evolution of States and Union Territories

■ Preamble

- Text of the Preamble
- Ingredients of the Preamble
- Key Words in the Preamble
- Significance of the Preamble
- Preamble as Part of the Constitution
- Amendability of the Preamble

■ Fundamental Rights

- Features of Fundamental Rights
- Definition of State
- Laws Inconsistent with Fundamental Rights
- Right to Equality
- Right to Freedom
- Right Against Exploitation
- Right to Freedom of Religion
- Cultural and Educational Rights
- Right to Constitutional Remedies
- Writs—Types and Scope
- Armed Forces and Fundamental Rights
- Martial Law and Fundamental Rights
- Effecting Certain Fundamental Rights
- Present Position of Right to Property
- Exceptions to Fundamental Rights
- Criticism of Fundamental Rights
- Significance of Fundamental Rights

TEST: 12 (POLITY)

Topic:

- DPSPs
- Fundamental Duties
- Amendment
- Basic Structure

■ Directive Principles of State Policy

- Features of the Directive Principles
- Classification of the Directive Principles
- New Directive Principles
- Sanction Behind Directive Principles
- Criticism of the Directive Principles

- Utility of Directive Principles
- Conflict Between Fundamental Rights and Directive
- Principles
- Implementation of Directive Principles
- Directives Outside Part IV

■ Fundamental Duties

- Swaran Singh Committee
- Recommendations
- List of Fundamental Duties
- Features of the Fundamental Duties
- Criticism of Fundamental Duties
- Significance of Fundamental Duties
- Verma Committee Observations

■ Amendment

- Procedure for Amendment
- Types of Amendments
- Criticism of the Amendment Procedure

■ Basic Structure

- Emergence of the Basic Structure
- Elements of the Basic Structure

TEST: 13 (POLITY)

Topic:

- Union executives and legislature

■ Union executive

- The Union Executive
- The President
- Relation between President and Council of Ministers
- Vice President
- Prime Minister
- Council of Ministers
- Attorney General

■ Union legislature

- Lok Sabha
- Rajya Sabha
- Functions and Powers of Parliament
- Sessions of Parliament: Adjournment, Prorogation, Dissolution etc.
- Lacunas in Parliamentary Functioning in India
- When Does a Bill Lapse in Indian Parliament?
- Types of Majorities Used in the Indian

Parliament.

- Election to Rajya Sabha: The Procedure, Relevance of Rajya Sabha
- Government Budgeting: Indian Budget for Beginners.
- Budget Documents Made Simple: Key to Budget Documents.
- Cut Motions: Policy Cut, Economy Cut, and Token Cut.
- Misuse of Ordinance promulgation power
- Office of the Speaker: Powers and Issues
- Issue related to office of profit
- Breach Of Privilege: Special privileges to MP's and its implications
- Parliamentary Committees
- Parliamentary Committees in Lok Sabha and Rajya Sabha.
- Diminishing importance of parliamentary committees

■ Anti Defection Law

- Provisions of the Act

- Evaluation of the Act

- 91st Amendment Act (2003)

TEST: 14 (POLITY)

Topic:

- State executive and Legislature,
- Federal Structure and issues related to it,
- Emergency Provisions

■ Centre- State and Inter-State Relations

- Legislative Relations
- Administrative Relations
- Financial Relations
- Trends in Centre–State Relations
- Inter-State Water Disputes
- Inter-State Councils
- Public Acts, Records and Judicial Proceedings
- Inter-State Trade and Commerce
- Zonal Councils

- Criticism of the Emergency Provisions

■ State executive

- The Governor
- Appointment, Tenure and Removal of a Governor
- Can the governor be dismissed arbitrarily?
- Ordinance making power of the Governor
- The Council of Ministers
- Relationship between the Governor and Council of Ministers
- Protection of Governor
- Advocate General

■ Federal structure

- Federal Features of the India Union
- Unitary Features of the Constitution
- Is India a true federation?
- Importance of Federalism in India
- Issues and Challenges faced by Indian Federalism
- Critical Assessment of Federal System in India

■ State legislator

- Constitution of Legislatures in States
- Abolition or creation of Legislative Councils in States.
- Composition of the Legislative Assemblies
- Sessions of the State Legislature, prorogation and dissolution
- Right of Governor to address and send messages to the House or Houses.
- Rights of Ministers and Advocate-General as respects the Houses.

■ Emergency

- National Emergency
- President's Rule
- Financial Emergency

TEST: 15 (POLITY)

Topic:

- Local bodies, Scheduled areas

■ Panchayat

- Evolution of Panchayati Raj
- 73rd Amendment Act of 1992
- Compulsory and Voluntary Provisions
- PESA Act of 1996 (Extension Act)
- Finances of Panchayati Raj
- Reasons for Ineffective Performance

■ Municipalities

- Evolution of Urban Bodies
- 74th Amendment Act of 1992
- Types of Urban Governments
- Municipal Personnel

- Municipal Revenue

- Central Council of Local Government
- Cooperatives
- Constitutional Provisions
- Reasons for the 97th Amendment

■ The Scheduled and Tribal Areas

- 5th schedule areas
- 6th schedule areas
- Composition of autonomous councils
- Role and functions of councils
- Role of Governor with respect to tribal areas
- Tribal sub plan

TEST: 16 (POLITY)

Topic:

- Constitutional bodies
- Non constitutional bodies

■ Constitutional and Non Constitutional Bodies

- Election Commission
- Union Public Service Commission
- State Public Service Commission
- Finance Commission
- Goods and Services Tax Council
- National Commission for SCs
- National Commission for STs

- National Commission for BCs
- Special Officer for Linguistic Minorities
- Comptroller and Auditor General of India
- Attorney General of India
- Advocate General of the State
- NITI Aayog
- National Human Rights Commission
- State Human Rights Commission
- Central Information Commission

- State Information Commission
- Central Vigilance Commission
- Central Bureau of Investigation
- Lokpal and Lokayuktas
- National Investigation Agency
- National Disaster Management Authority

**TEST:17
(POLITY)****Topic:**

- Judiciary + Elections + Political parties in India

■ Judiciary and related issues

- Supreme Court
- High Courts
- Subordinate Courts
- Judicial Review
- Judicial Activism
- Public Interest Litigation

- Election Process
- Representation of the People Act, 1950
- Representation of the People Act, 1951
- Delimitation Act, 2002
- Other Acts Relating to Elections
- Rules Relating to Elections
- Orders Relating to Elections
- Electoral Reforms

■ Tribunals

- Administrative Tribunals
- Tribunals for Other Matters
- Election
- Electoral System
- Election Machinery

■ Political parties in India

- The need of political parties
- Party System in India
- Problems in the working of parties
- The Extent of Criminalisation in Politics

ECONOMICS**TEST: 18****Topic:**

- Basics of Indian economy

■ Indian Economy and issues relating to Planning

- Role and objectives of Indian Planning
- Planning Experience at the Centre and State level
- Regulatory Role of the State
- Development Strategy in India's Five Year Plan
- Mahalanobis' Four-Sector Growth Model and Employment Generation
- Tackling the Problems of Poverty and Unemployment
- Vital Role of the Public Sector
- Analysis of India's Economic Performance in Development Planning
- Trends in Saving and Capital Formation since Independence
- Role of NITI Aayog in Cooperative federalism
- Resource Mobilization
- Types of Resources: Physical and Financial
- Need for Resource Mobilization- Police State and Democratic Welfare State policies
- Sources of Resource Mobilization: Public Sector and Private Sector
- Taxation and Mobilization of Resources for Economic Growth
- Direct Taxes and Mobilisation of Resources

- Agricultural Taxation & Resource Mobilisation
- Role of Indirect Taxes in Resource Mobilisation
- Mobilization of financial resources through Government Revenues
- Role of Public Debt in resource mobilization and effects: Market borrowing, loans, grants, etc.
- Role of Fiscal and Monetary policies in resource mobilization
- Role of Foreign investment in resource mobilization: Desirability and Consequences
- Multi-lateral agencies and resource mobilization
- Challenges to Resource Mobilization

■ National Income

- Concepts of National Income
- Calculation of National Income
- Latest India's National Income Estimates
- New Series of National Statistics (Base Year 2011-12)
- Annual Estimates of Expenditures on GDP
- Per Capita Income
- Purchasing Power Parity
- Lorenz Curve , Philip's Curve
- Ginni Coefficient

TEST: 19**TOPIC:**

- Money, Banking and Finance

■ Monetary Policy

- Instruments of Monetary Policy
- Monetary policy in Pre-Reform Era (1948 – 1991)
- Monetary Policy in Post-Reform Era (Since – 1991)
- Urjit Patel Committee Report
- Monetary Policy Committee
- Inflation Targeting

- Banking Reforms in India
- New Bank License Criteria
- Small Finance Banks and Payment Banks Criteria
- Non-Banking Financial Company (NBFC)
- Financial Inclusion
- Issue of NPAs
- Bills related to Banking

■ Banking

- Indian Banking System
- Terminologies/Concepts Related to Banking in India
- Nationalization of Banks in India
- Functions of Commercial Banks
- Challenges Faced by Commercial Banks in India

■ Financial system

- Money Market and Capital Market in India
- Regulatory Framework in Indian Capital Market
- Primary Market Reforms in India
- Secondary Market Reforms in India

TEST: 20**TOPIC:**

- Public Finance

■ Fiscal Policy

- Budget
- Receipts, Revenue Receipts, Tax Revenue Receipts, Non-Tax Revenue Receipts
- Revenue Expenditure
- Revenue Deficit, Fiscal Deficit, Primary Deficit
- Deficit and Surplus Budget

- Deficit Financing
- Subsidies

■ Taxation

- Tax Structure in India
- Tax – Direct Tax, Indirect Tax
- Methods of Taxation – Progressive , Regressive
- Proportional Value Added Tax – VAT in India

- Goods and Services Tax – GST , GST Council

- Service Tax
- DTC – Direct Tax Code

TEST: 21**TOPIC:**

- Sectors of Indian Economy

■ Industrial Policy and Industrial Development: Main Issues

- Mahalanobis strategy and India's industrial policy-Discussing Industrial policy resolution 1948 and 1956 critically
- New Economic Policy and Industrial policy under the policy of liberalization, privatization and globalization
- Phases of Industrial development since independence

■ Main features of Industrial development in India

- Roles of private sector and public sector, Investment in the industrial sector, employment, productivity, profit etc.
- Strategies for disinvestment and privatization
- Role of Small, Medium and Micro enterprises, Government Policy, main problems, effects of globalization
- New Manufacturing Policy
- Industrial disbursal and Industrial corridors
- SEZs- Main issues like land use, relocation of same industries that exist, exports earnings vs loss of tax income
- Industrial sickness, institutional mechanism to support the sick industries, exit policy issues
- Main constraints in the industrial

development of India

- Effects of globalization on industries, Sub- prime crisis and sovereign debt crisis on Industry in India
- Industrial Finance in India: Role of development banking, commercial banking, venture capital, angel capital in industrialization and promotion of entrepreneurship
- Make in India achievements

■ Infrastructure

- Western Dedicated Freight Corridor (WDFC)
- First Freight Village
- Bidder Information Management Systems (BIMS)
- Bhoomi Rashi - PFMS linkage
- National E-Mobility Programme Draft National Automotive Policy
- Advanced Motor Fuels Technology Collaboration Programme
- Railways CONCOR begins coastal operations
- Air Sewa - 2.0
- Airports Privatization
- Drone regulations developed by Ministry of Civil Aviation
- Water Aerodrome
- NABH (Nextgen Airports for Bharat) Nirman Initiative
- Bansagar Canal Project

- Jal Marg Vikas Project
- National Waterways projects in North Eastern Region (NER)
- Declaration of irrigation projects as National Projects
- Portal launched for real-time information on National
- Waterways
- Revised PPP Port Concessions
- Solar Charkha Mission
- Patratu Super Thermal Power Plant
- National Energy Storage Mission
- Kudankulam Nuclear Power Plant (KNPP)
- Srinagar - Alusteng - Drass - Kargil – Leh
- Transmission System
- Development of renewable energy
- Additional Strategic Petroleum Reserves established

- TRAI Interconnect Rule
- The TRAI launches integration & availability of TRAI Mobile Apps on UMANG platform
- Cabinet Approves Easing of Spectrum Cap
- Strategic Investment Fund under NIIF
- O-SMART scheme

■ Investment Models

- Public Investment Model
- Private Investment Model
- Public Private Partnership Model
- BOT (build–operate–transfer).
- BOOT (build–own–operate– transfer).
- BOO (build–own–operate).
- BLT (build–lease–transfer).
- DBFO (design–build–finance– operate)

TEST: 22

TOPIC:

- Foreign Trade, Foreign Capital & Agriculture

■ Role of Agriculture in Indian Economy

◦ Land resource

- Land-use pattern and Land capability classification
- Causes and Impact of Land
- Degradation
- Sustainable Land Management
- Steps taken by GOI

◦ Land Reforms

- Objectives of Land Reforms in India
- Progress of Land Reforms in India
- NITI Aayog Report on Land Leasing

■ Agriculture Finance

- Features of Agricultural Finance
- Criteria for Agricultural Credit
- Need for Agricultural Finance
- Sources of Agricultural Finance
- Problems of Agricultural Finance
- Measures taken to improve credit flow to agriculture

- Co-operative Credit Societies in India

■ Agricultural Credit Institutions

- Multi Agency Approach
- Commercial Bank
- Lead Bank Scheme
- Regional Rural Banks
- National Bank for Agriculture and Rural Development (NABARD)
- Reserve Bank of India
- Kisan Credit Card Scheme
- Bank Linkage Programme
- Rural Infrastructure Development Fund (RIDF)
- Government Policy For Agricultural Credit
- Farmers Service Societies (FSS)

■ Crop Insurance in India

- Issues Related to Crop Insurance
- Pradhan Mantri Fasal Bima Yojana
- Comparison with Earlier Crop Insurance Schemes

■ Agriculture Marketing

- Process of Agricultural Marketing in India
- Structure of Agricultural Marketing in India
- Importance of Proper Agriculture Marketing
- Government Measures to Improve Agricultural Marketing in India
- Analysis of APMC Act

■ Subsidies

- Objectives of subsidies

- Transfer of resources from gainers from economic policies to losers from economic policies
- Farm Subsidies
- Fertiliser subsidies
- Subsidy on power
- Subsidy on irrigation
- Rationale of Minimum Support Price
- Impact of MSP on inflation
- Public Distribution System: Objectives, functioning, limitations,, revamping, evolution from universal PDS to targeted PDS, Targeted PDS, a critical analysis of cost and benefit of PDS
- Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- Food Security bill, questions of resource mobilization for the FSB, criticism of the FSB
- Important questions on the future of Subsidies
- Agricultural Revolutions in India
- Green Revolution
- White Revolution – Operation Flood
- Yellow Revolution
- Blue Revolution
- Golden Fibre Revolution: Jute

■ Food Processing

- Processed Foods Scenario with respect to Specific Sectors
- Infrastructure Development in Food Processing Sector
- Issues in Food Processing Sector
- FDI Policy in Food Processing

- Notable Trends in the Indian Food Processing Sector
- Strategies Adopted in Budget
- New foreign and domestic investment
- Sector-specific government policies

TEST: 23**TOPIC:**

- Human Development and Inclusive Growth

■ Inclusive Growth and issues arising from it

- Meaning and concept of Inclusion
- India's experience of Inclusion
- Why India's growth is not inclusive?:
- Rural economy based growth, Need of Sustainable agriculture, food security and resilience for growth
- What are the solutions?
- Inclusion process through Social sector
- flagship schemes and Ground realities
- Public distribution schemes: Can it be the way to inclusive growth
- Financial inclusion as an instrument of inclusive growth
- Poverty Alleviation and Employment Generation as a strategy for inclusive growth
- Social sector development as an instrument for inclusive growth
- Public private partnership for inclusive growth
- Industrial Integration for inclusive growth
- Sectoral and regional diversification as a tool for inclusive growth

■ Poverty

- Committees
- Poverty Line
- Multi dimensional poverty
- Poverty Alleviation and Employment
- Generation as a strategy

■ Human development

- Dimensions of Human development
- Measuring Human Development
- India's Performance in HDI
- Roadblocks in India's Human Development
- Steps taken to improve Human Development in India

■ Foreign trade & International Organizations

- Trends in International Trade
- Foreign Trade Policy
- Balance of Payments and Foreign Capital
- Impact of Globalization on Indian Economy
- International Monetary Fund (IMF)
- World Trade Organisation (WTO)
- World Bank Group
- AIIB and NDB

GEOGRAPHY

TEST: 24

TOPIC:

- Geomorphology, Oceanography

■ **The origin of the Earth**

- Early Theories
- Modern Theories
- Star Formation
- Formation of Planets
- Solar System

■ **The Evolution of the Earth**

- Layered Structure
- Evolution of Lithosphere
- Evolution of Atmosphere
- Evolution of Hydrosphere

■ **The origin of the Earth**

- Early Theories
- Modern Theories
- Star Formation
- Formation of Planets
- Solar System

■ **The Evolution of the Earth**

- Layered Structure
- Evolution of Lithosphere
- Evolution of Atmosphere
- Evolution of Hydrosphere

■ **Geological History of the Earth**

- Earth
- Latitude and Longitude including

important Parallels and Meridians

- Motions of the Earth - Rotation, Revolution and their effects
- Inclination of the Earth's Axis and its effects
- Local and Standard Time and the International Date Line, Calendar
- Eclipses - Solar, Lunar

■ **Origin of Life Geological Time Scale Interior of the Earth**

- Sources of Information
- Direct
- Indirect - Earth Quake Waves Volcanoes
- Crust
- Mantle
- Core

■ **Geomorphology**

- Geology
- Minerals
- Major Elements of the Earth's Crust
- Minerals – Feldspar , Quartz, Pyroxene Amphibole , Mica , Olivine
- Physical Characteristics – Crystal Form, Cleavage Fracture, Lusture, Color, Streak
- Transparency, Structure, Hardness, Specific Gravity
- Metallic minerals – precious Ferrous ,

- Non Ferrous
- Non-metallic Minerals – Sulphur , Phosphates , Cement
- Rocks (Aggregate of Minerals)
- Petrology
- Rocks & landforms
- Rocks & Soils
- 3 Family of Rocks
- Igneous
- Sedimentary
- Metamorphic
- Rock Cycle
- Earthquakes & Volcanoes
- Waves: P, S, Body, Surface
- Shadow Zone
- Types of Earthquakes
- Effects
- Frequency
- Locating an Epicentre
- Volcano
- Shield
- Composite
- Caldera
- Flood Basalt
- Mid Ocean Ridge
- Landforms (intrusive)
- Batholiths
- Lacoliths
- Lapoliths
- Phacoliths
- Sills
- Dykes
- Geomorphic Processes
- Earth's Surface
- Exogenic Forces
- Endogenic Forces
- Gradation, Degradation & Agradation
- Geomorphic Process
- Endogenic Process
- Diastrophism
- Orogenic
- Epierogenic
- Earthquakes
- Plate movements
- Volcanism
- Exogenic Forces
- Denudation Processes
- Weathering
- Mass movements
- Distribution of Continents & Oceans
- Theories
- Continental Drift Theory
- Alfred Wegner 1912
- Pangea, Panthalasa
- Laurasia, Gondwanaland
- Evidence in support of Continental Drift Theory
- Jigsaw Fit
- Rocks of Same age across oceans
- Tillite
- Placer Deposits
- Distribution of Fossils
- Forces of Drifting
- Pole Fleeing Force
- Tidal Force
- Post Drift Studies
- Convectional Current Theory
- Mapping of the Ocean Floor

- Continents – Plate Tectonics
- Lithospheric Plates
- Major Plate
- Minor Plates
- Plate Boundaries
- Divergent
- Convergent
- Transform
- Rates of Plate Movements
- Force of plate movements
- Indian Plate
- Landforms and their Evolution
- Causes
- Geomorphic Processes
- Agents
- Geomorphic Agents
- Erosional or Destructional
- Depositional or Constructional
- Agents and their Impacts
- Wind, Running Water, Ground Water, Glaciers, Waves & Currents
- Winds
- One of the Two dominant agents in Hot deserts
- Cause – De flation Abrasion Impact
- Erosional landforms
- Pediments and Pediplains
- Playas
- Deflation Hollows and Caves
- Mushroom, Table & Pedestal Rocks
- Depositional Landforms
- Barchans
- Seif
- Parabolic
- Transverse

- Longitudinal
- Running Water
- Erosional Landforms
- Valleys
- Rills
- Gullies
- Valleys – V Shape, Gorge (Hard Rocks), Canyon (Sedimentary)
- Potholes & Plunge pools
- Incised or entrenched meanders
- River Terraces – paired & unpaired
- Depositional Landforms
- Alluvial Fans
- Delta
- Flood Plains, Natural Levees, Point Bars
- Meanders, Slip off bank, Under cut bank
- Oxbow lake
- Braided Channels
- Ground Water (Karst Topography)
- Permeable Rocks
- Percolation
- Bedding Plains

■ Oceanography

- Water on the Surface of the Earth
- Hydrological Cycle
- Component
- Processes
- Oceans
- Relief of the Ocean floor
- Divisions of the ocean floor
- Continental Shelf
- Continental Slope
- Deep sea plain
- Oceanic deep and Trenches

- Minor relief features
- Mid oceanic ridges
- Seamount
- Submarine canyons
- Guyouts
- Atoll
- Temperature of the Ocean Water
- Vertical
- Spatial
- Factors affecting Temperature distribution
- Latitude
- Unequal distribution of land & Water
- Prevailing wind
- Ocean Currents
- Horizontal & Vertical Distribution
- Salinity of the Ocean Water
- Factors affecting salinity
- Evaporation and precipitation
- Fresh water flow from rivers
- Ocean Currents
- Horizontals distribution of salinity
- Vertical Distribution of salinity
- Density of Ocean Waters
- Movements of ocean Water
- Factors influencing Movement
- Temperature
- Salinity
- Density
- Motion – Horizontal and Vertical Currents
- Waves
- Motion of waves and water molecules
- Characteristics of wave
- Crest and Trough
- Height
- Amplitude
- Period
- Length
- Speed
- Frequency
- Tides
- Relation between Gravitational Forces and Tides
- Tidal currents
- Types of Tides
- Based on Frequency – Semi Diurnal , Diurnal, mixed
- Based on SME position – spring and Neap Tides
- Importance of Tides
- Ocean Currents
- Primary Force that initiates the movement
- Heating of solar energy
- Wind
- Gravity
- Coriolis force
- Secondary force that influence the currents to flow
- Types of ocean currents:
- Surface currents & Deep water currents based on Depth
- Cold and Warm Currents based on Temperature
- Major Ocean currents of the World
- Effects of Ocean Currents

TEST: 25**TOPIC:**

- Climatology, Biogeography

■ Climatology

- Composition
- Gases
- Water Vapour
- Dust Particles
- Structure
- Exosphere
- Thermosphere
- Mesosphere
- Stratosphere
- Troposphere
- Altitude vs Temperature
- Solar Radiation Heat Balance
- Temperature
- Insolation
- Macro Budget
- Albedo
- Shortwave Radiation
- Long wave Earth Radiation
- Variation in the net Heat Budget at the Earth's Surface
- Temperature
- Factors controlling Temp distribution
- Distribution of Temp Month of January-July
- Range of Temp Month of January- July
- Inversion of Temperature
- Atmospheric Circulation and Weather Systems
- Atmospheric Pressure
- Vertical variation of pressure
- Horizontal distribution of pressure
- World Distribution of Sea Level Pressure
- Factors affecting the velocity and direction of the Wind
- Pressure Gradient Force
- Frictional Force
- Coriolis Force
- Pressure and Wind (Cyclonic & Anticyclone Circulation)
- General Circulation of the Atmosphere – Pattern of Planetary Winds
- Latitudinal Variation of Atmospheric Heating
- Emergence of Pressure Belts
- Migration of Belts Following apparent Path of Sun

■ Aphelion and Perihelion

- Variability of Insolation at the surface of the Earth
- Day Season Year
- Rotation on Axis , Angle of Inclination of sun rays , Length of the day
- Transparency of Atmosphere, configuration of land in terms of its aspect.
- Heat Balance
- Heating and cooling of atmosphere
- Conduction
- Convection
- Advection
- Terrestrial Radiation
- Heat Budget of the Planet Earth

- Distribution of continents & Oceans
 - Rotation of the Earth
 - Circulation
 - Simplified Global Circulation – Hadley Cell, Ferrel Cell
 - Seasonal Wind
 - Local Wind
 - Land and Sea Breezes
 - Mountain and Valley Winds
 - Air mass & fronts
 - Extra Tropical Cyclone
 - Thunderstorms
 - Tornadoes
 - Water in the Atmosphere
 - Water Vapour
 - Precipitation
 - Humidity – Absolute and Relative
 - Saturation – Dew Point
 - Evaporation and Condensation
 - Dew
 - Frost
 - Fog & Mist
 - Clouds
 - Types – Cirrus, Cumulus, Stratus, Nimbus
 - High – Cirrus, Cirrostratus, Cirrocumulus
 - Middle – Altostratus, Altocumulus
 - Low – Stratocumulus, Nimbostratus
 - Vertical Development – Cumulus and Cumulonimbus
 - Precipitation
 - Rainfall, Snowfall, Sleet Hail, Hailstones
 - Types of Rainfall
 - Conventional
 - Orographic
 - Cyclonic
 - World Distribution of Rainfall
 - World Climate
 - The Hot, Wet Equatorial Climate
 - The Tropical Monsoon and Tropical Marine Climates
 - The Savanna or Sudan Climate
 - The Hot Desert and Mid-Latitude Desert Climates
 - The Warm Temperate Western Margin (Mediterranean) Climate
 - The Temperate Continental (Steppe Climate)
 - The Warm Temperate Eastern Margin (China Type Climate)
 - The Cool Temperate Western Margin (British Type Climate)
 - The Cool Temperate Continental (Siberian) Climate
 - The Cool Temperate Eastern Margin (Laurentian) Climate
 - The Arctic or Polar Climate
- **Bio-Geography**
- Soil & Its Characteristics
 - Soil Characteristics
 - Factors Responsible for Soil Formation
 - Process of Soil Formation
 - Soil Profiles and Horizons
 - Classification of Soil
 - Soil Degradation, Erosion and Conservation
 - Vegetation resources
 - Types of natural vegetation
 - Forests

- Significance of forests
- Factors of forest development
- Classification of forests
- forest cover
- Grasslands! Desert vegetation
- Tundra Vegetation
- Deforestation
- Conservation of forests
- Reforestation
- Afforestation
- Forestry
- Social forestry
- Agro-forestry
- Farm Forestry
- Community Forestry

TEST: 26

TOPIC:

- Indian Physical Geography

■ Indian Physical geography

- Physiography of India
- Location
- Geopolitical Significance of India
- Geological Divisions
- The Peninsular Block
- The Himalayas and other Peninsular Mountains
- Indo-Ganga-Brahmaputra Plain
- Physiographic Divisions
- Drainage System
- Drainage Patterns
- Drainage System of India
- Himalayan Drainage System
- Indus river system
- Ganga River System
- Brahmaputra river system
- Peninsular Drainage System
- River Systems of Peninsular Drainage
- Small Rivers Flowing Towards East and West
- Climate
- Factors influencing the climate of India
- Monsoon
- Mechanism of the Monsoon
- Classical Theory
- Modern theory
- Air mass theory J
- Jet stream theory
- ELNINO and LANINA & their impact
- The rhythm of Seasons
- The cold weather season
- The hot weather season
- The southwest monsoon season
- The retreating monsoon season
- Climatic Regions of India
- Soils in India
- Classification of Soils
- Soil textures
- Issue of Soil degradation & Soil Erosion
- Soil Conservation
- Natural Vegetation
- Types of Forests in India
- Forest Cover in India
- Forest Conservation
- Forest Problems in India

TEST: 27**TOPIC:**

- Indian Agriculture

■ Agriculture

- Agriculture Basic Terminologies
- Cropping pattern
- Agriculture Productivity
- Agriculture Intensity
- Land capability
- Location of agriculture
- World Agriculture Typologies
- Salient features of Indian Agriculture
- Problems of Indian Agriculture
- Factor Affecting Agriculture
- Geographical factors
- Institutional factors
- Technological factors
- Major Crops and conditions for growth
- Regionalization of Agriculture
- Various Revolutions in Agriculture Sector
- Green Revolution
- Impact of Green Revolution
- Evergreen Revolution
- White Revolution
- Operation Flood
- Blue Revolution
- Agricultural Policies and Initiatives
- Minimum Support Price: Benefits and Challenges
- Agriculture Market Produce Committees: Issues
- National Agriculture Market (NAM)
- Agricultural Produce and Livestock Marketing (Promotion and Facilitating) Act (APLM), 2017
- National Livestock Mission
- National Programme for Bovine Breeding and Dairy Development (NPBBD)
- Rashtriya Gokul Mission
- Agriculture Export Policy, 2018
- Pradhan Mantri Kisan Samman Nidhi (PM- KISAN)
- Pradhan Mantri Annadataaay Sanrakshan Abhiyan (Pm-Aasha)
- Operation Greens
- Dairy Processing & Infrastructure Development Fund (DIDF)
- Fisheries and Aquaculture Infrastructure Development Fund (FIDF).
- Agriculture Census
- Food Security
- Nature of Food Insecurity: Duration, Severity and types
- Trend and Pattern in Food Insecurity
- Causes and Geography of famine
- Key Dimension of food security
- Efforts and Remedies to ensure food security
- Agricultural in Discussion
- Controversy over GM Crops: Benefits and Issues
- Impact of climate Change on Agriculture
- Evergreen Green Revolution for Sustainable Livelihood
- Rainbow Revolution

- Blue Revolution: Impact on Rural Economy
- Climate Smart Agriculture
- Need of Agriculture Diversification
- Mixed farming: Hedging Agriculture Risks
- Problems and Prospects of dryzone agriculture
- Plantation Agriculture: Issues involved
- Challenges of increasing Agriculture Productivity and Production
- New 'White Revolution': Need, Scope and Challenges
- Contract Farming: Benefits and Challenges
- Role of infrastructural and institutional factors in the recent transformation of Indian agriculture
- Impact of advanced agricultural technologies on the Environment
- Soil Health Card scheme and rationalisation of fertilizer subsidies
- Food Security: India's Vulnerability and way- out

TEST: 28**TOPIC:**

- Key Natural Resources and Industries Across The World and India

■ Mineral Resource

- Types of minerals: Metallic minerals
- Non-metallic mineral
- Distribution of minerals and mining regions
- Distribution, production and international trade of Metallic minerals: Ferrous metals: Iron ore
- Ferro-alloys and non-ferrous
- Manganese
- Chromium
- Nickel
- Tungsten
- Antimony
- Copper
- Bauxite and Aluminium
- Zinc
- Lead
- Tin
- Gold
- Silver
- Platinum
- Mineral chemicals
- Mica
- Potash
- Phosphate
- Nitrates
- Sulphur
- Conservation of mineral resources
- Energy Resources
- Classification of energy
- Production of conventional energy
- General trends of energy production and consumption
- Reserves and sources of energy
- Coal

- Nature and origin of coal Constituents and kinds of coal
- Coal fields and coal production
- Byproducts of coal
- Conservation of Coal
- Petroleum
- Nature and properties of petroleum
- Origin and recovery
- Exploration
- Petroleum refining
- Petroleum reserves
- Producing areas
- Consumption of petroleum
- International trade
- OPEC and its role in oil trade
- Natural gas: Reserves and Production
- Hydro-electricity
- Advantages of hydro-electricity
- Ideal conditions for generation of hydro-electricity
- Distribution of potential hydropower
- Hydro-electric power generation in India
- Atomic (nuclear) energy
- Atomic: source minerals: Uranium

- World distribution of Uranium
- Production of Uranium
- Thorium
- Production of Atomic (Nuclear) Energy
- Nuclear Energy
- Profits and freight rates
- Government's transport policy

■ Transportation

- Transport patterns in the world: Oceanic transport
- Ocean transport routes
- Inland waterways
- Main regions of inland waterways
- Railways: Factors affecting the railroads
- Distribution of railroads in the world
- Air transport: Factors influencing air transport
- Air transport in various continents
- Pipeline transport
- Petroleum (oil) pipelines
- Gas pipelines
- Vegetation Resources
- Types of natural vegetation

TEST: 29

TOPIC:

- Demography, Census, Settlement, Migration And Human Development

■ Demography

- Concept of human resources
- Population distribution
- Physical factors
- Socio-cultural factors
- Demographic factors
- World population distribution
- Ecumene
- Non-ecumene
- Continent-wise distribution of population
- Density of population

- Pattern of population density
- Population increase (growth) in the world
- Causes of rapid increase in population
- Future projections
- Determinants of population growth
- Natural increase
- Characteristics of population
- Age composition
- Population pyramids
- Sex composition
- Literacy
- Theories of population growth
- Malthusian theory
- Marxian theory
- Demographic Transition Theory
- Optimum population
- Over-population
- Under-population
- Population problems
- Population problems of developing countries
- Population problems of developed countries
- Population Policies: of China, of India.
- Various types of rural settlements
- Relationship between house types with relief, climate and building materials

■ Urbanization

- Basic Feature and Pattern's of India's Urbanization
- Issues of Urbanization in India
- Rural Urban Migration
- Emergence of Slums
- Urban Transport
- Waste Disposal

- Water Supply, Drainage and Sanitation
- Electronic Waste
- Urban Poverty
- Real Estate (Regulation & Development) Act
- Way Forward to Tackle Issues Related to Urbanization
- Inclusive Cities/Smart cities
- Recent government programmes: AMRUT, HRIDAY Scheme

■ Migration

- Displacement
- Importance of the Rehabilitation Policy
- Urban settlements: types
- Morphology of urban settlements
- Migration: Push factors and pull factors
- Emigration during colonial, post independent and postliberalisation period
- Functional classification of cities
- Difference between boundaries and frontiers, their classification
- Rural urban fringe characteristics, advantages, problems
- National urbanisation policy
- Factors affecting rural settlements, their types and patterns

■ Census

- Literacy
- Sex Ratio
- Family Planning
- Old Age
- Age Structure
- Density
- Population Growth
- Census Terminologies

GOVERNANCE

TEST: 30

TOPIC:

- Basics of Governance, Transparency & Accountability

■ **Governance**

- Concept of Good Governance
- Issues Concerning Governance
- Right Based Approach in Policy Making
- Public Policy Making and Policy Implementation
- How to Establish Good Governance

■ **Transparency & Accountability**

- Right to Information
- Information sharing and transparency in government
- RTI and Official Secret Act: Who's winning and why Judiciary wants to remain isolated
- Citizen's Charters
- Benefits of Citizen Charter
- Citizen Charter in India: An Evaluation
- Problems Faced in Implementing the Charters
- Steps to improve Citizen Charters
- Indian Approach to Citizen Charter: Sevottam Model
- Administrative Reforms Commission's Seven Step Model for Citizen Centricity
- Right to Service
- Extent of regulations and openness of media and social networking sites
- T.K. Visanathan Committee On Hate Speech

- Role of MEDIA in bringing Transparency and Accountability
- Social Media and Accountability
- e-Governance
- Role of E-Governance in bringing Transparency and Accountability
- Major E-Governance Projects and challenges in their implementation
- Role of civil services in a democracy
- Linkage of Civil Services and Democracy
- Debate on Lateral Entry in Civil Services
- Relation between Civil Servants and Political Executives
- Performance Appraisal System in Bureaucracy
- Reforms Needed In Indian Bureaucracy
- Codes of Ethics and Code of Conduct
- Paid news abuse by social media a poll menace
- Model code of conduct
- Utilization of Public funds
- Significance of Public Accounts Committee
- Challenges of corruption and Incompetence

TEST: 31

TOPIC:

- Role of civil services in a democracy, Regulatory Structure and Governance Reforms, Government policies and interventions for development in various sectors and issues arising out of their design and implementation

■ Role of civil services in a democracy

- Linkage of Civil Services and Democracy
- Debate on Lateral Entry in Civil Services
- Relation between Civil Servants and Political Executives
- Performance Appraisal System in Bureaucracy
- Reforms Needed In Indian Bureaucracy

■ Codes of Ethics and Code of Conduct

- Paid news abuse by social media a poll menace
- Model code of conduct

■ Utilization of Public funds

- Significance of Public Accounts Committee
- Challenges of corruption and Incompetence

■ Regulatory Structure and Governance Reforms

- Functions and responsibilities of various Bodies
- Analysis of Autonomy and functioning of CAG, CBI, CVC and NHRC
- Lokpal and rise of Ombudsman era: a

critical evaluation of journey traveled so far

- State and operational effectiveness of Local governments in India
- Corporate Governance in India - Why is it so critical
- Police Reforms in India
- Curb On VIP Culture
- Prison Reforms in India
- Improving Governance In Public Systems

■ Organisation/Bodies

- 14th Finance Commission Analysis
- 7th Pay Commission Report & Repercussions
- AFSPA & Second ARC
- Role of NITI Aayog
- Significance of Public Accounts Committee
- Right to Information
- Accountability & Transparency in NGOs

■ Scheme

- Pradhan Mantri Jan-Dhan Yojana (PMJDY)
- Swachh Bharat Mission
- National Skill Development Mission
- National Food Security Act, 2013

- SansadAdarsh Gram Yojana
- Smart City Mission
- Saubhagya Plan
- NAMAMI GANGE
- Critical Analysis of Stand up India Scheme
- MGNREGA

■ Policies

- NITI Aayog's Report on Rationalization of Centrally Sponsored Schemes (CSS)
- Law Commission's 268th Report on Bail Reforms
- Model Land Leasing Law Prepared by NITI Aayog
- T K Visanathan Committee on Hate Speech
- Law Commission Report on Tribunals in India
- Law Commission Report on United Nations Convention against Torture

TEST: 32

TOPIC:

- Development processes and the development industry- the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders

■ DEVELOPMENT PROCESSES AND THE DEVELOPMENT INDUSTRY

- Role of Self Help Group in Development
- Shortcomings and Recommendations to Improve Self Help Group
- Role and functions of NGOs in the Development
- Challenges Faced by NGOs in India
- Issue of Fund Mismanagement
- Role of Microfinance Institutions in Development Process Issues Related to Microfinance Institutions and Recommendations
- Role of Foreign aid in Development
- The role and function of pressure groups in India
- Changing Pattern of Pressure
- Group Politics in India
- Socio-Economic Development
- Concept of Human Development
- Economic Growth and Human Development: Two-Way Link
- Measurement of Human Development
- Understanding Poverty
- Dimensions of Poverty
- Linkage between Poverty and Development
- Recommendations of Rangarajan Committee Report
- Poverty Alleviation Strategy Since Independence
- Programmes for Poverty Alleviation
- Concept of Inequality
- World Inequality Report 2018: Findings of the Report
- Income Inequality in India

- Recommendations to Reduce Inequality

Mechanisms

■ HUNGER

- Manifestations of Hunger and its causes
- Challenges to Food Security
- Global Hunger Index Report, 2018
- Recommendations
- Institutional Measures for Welfare of Vulnerable Sections

■ Issues Related to the Weaker

- **Sections & Vulnerable groups in India**
 - Constitutional Provisions for the Welfare of Society
 - Institutional Measures for the Welfare of the Society
 - Issues with the Institutional

■ HEALTH

- Public Health System of India
- Shortcomings of the Healthcare Sector
- Urgency of achieving Universal Health Coverage
- Evaluation of SWACHH BHARAT MISSION
- Global Nutrition Report 2018
- Initiatives Taken In Health Sector : Ayushman Bharat
- National Health Policy

■ EDUCATION

- Challenges of Education sector in India
- Right to Education and Challenges to EWS Children
- Initiatives by Government

ETHICS

TEST: 33

Topic:

- Ethics and Human Interface

■ **Ethics: Basic Introduction**

- Dimensions and Essence of Ethics
- Approaches of Ethical Study: Indian Perspective and Western Perspective
- Basic concepts: morality and value
- Ethics in public life
- Ethics in Economic Life
- Freedom and Discipline
- Duties and Rights
- Virtue Ethics
- Consequences of Ethics in Human Actions
- Values and Ethics in Government: Legislature, Executive and judiciary
- Contribution of Family in Value Education
- Contribution of Society in Inculcating Values
- Role of Educational Institutions in Inculcating Values

TEST: 34

Topic:

- Human Values

■ **Human values**

- Human Values & Socialization
- Individual Personality and Values
- Values and Skill
- Fundamental and Instrumental Values
- Democratic values
- Role of Ethical values in governance and society
- Significance of values in civil services
- Aesthetic values
- Values in work life and professional Ethics

TEST: 35

Topic:

- Aptitude and Foundational Value for Civil Services

■ **Aptitude and Foundational Values of Civil Services**

- Essential Aptitude for civil servants
- Foundational Values of Civil Services
- Civil Services Accountability
- Neutrality, Anonymity, Integrity, Humility

- Adaptability , Magnanimity , Perseverance
- Impartiality and Non-Partisanship
- Tolerance and compassion for the Weaker section
- Contribution to society by Civil Services

TEST: 36	Topic: <ul style="list-style-type: none"> ◦ Probity in Governance & Philosophical Basis of Governance Ethics in Administration
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■ Probity in Governance

- Concept of Public Service
- Philosophical basis of Governance and Probity
- Information Sharing, Transparency and
- Right to Information

■ Flaws in RTI and recommendations for Improvement

- Importance of vigilant citizens
- Information sharing and participation
- Importance of Code of ethics
- Code of Ethics in Professions
- Code of Conduct for Ministers; for Legislators; for Civil Servants; for Regulators and for the Judiciary
- Components of a Citizen Charter
- Steps in formulation of a Citizen's Charter ... Concept of Work Culture
- The Indian Approach to Work
- Methods of improving Work Culture
- Quality of Service Delivery
- Utilisation of Public Funds
- Problems in Fund Release and Utilization
- Parliamentary Control on Expenditure
- Corruption in India: extent, dimension, and response
- Corruption as a social evil
- Probity in public life Corrupt practice among civil servants and official

misconduct

- Exposing corruption: Civil Society initiatives and role of Whistleblower
- Act
- Tackling corruption: Role of government and institutions of governance
- Controlling corruption: Various approaches and efficacy

■ India & World Thinkers Indian Thinkers

- Mahatama Gandhi
- Dr. S Radhakrishnan
- Rabindranath Tagore
- Swami Dayanand Saraswati
- Mahadeva Govinda Ranade
- Sri Aurobindo
- Swami Vivekananda
- Sardar Patel
- Buddha
- Bhim Rao Ambedkar
- Raja Ram Mohan Roy
- Chhatrapati Shahu Maharaj
- Mother Teresa
- Amitabha Chowdhury
- Aruna Roy
- T N Seshan
- E Sreedharan

■ Administrative Thinkers

- Max Weber
- Elton Mayo
- Peter Drucker
- Chester Barnard
- Mary Parker Follet
- World Thinkers
- Plato
- Aristotle
- Socrates
- Jeremy Bentham
- J.S. Mill
- Thomas Hobbes
- John Locke
- Jean Jacques Rousseau
- John Rawls
- Immanuel Kant
- Carol Gilligan
- Jean Paul Sartre
- Georg Wilhelm Friedrich Hegel
- Confucius
- Rene Descartes
- Karl Marx
- Adam Smith
- Thomas Aquinas
- David Hume
- Democritus
- Galileo
- Friedrich Nietzsche
- Montesquieu
- Voltaire
- Thomas Jefferson

■ Indian & World Leaders

- Benjamin Franklin
- Martin Luther King
- Dalai Lama
- Nelson Mandela

- Mahatma Gandhi
- Siddhartha Gautama
- Aung San Suu Kyi
- Swami Vivekananda
- Albert Einstein
- Abraham Lincoln
- Mother Teresa
- J L Nehru
- Lee Kuan Yew
- Henry Ford
- Abdul Kalam
- Wangari Maathai
- Kofi Annan
- Lech Walesa
- Desmond Tutu
- Isaac Newton
- Elie Wiesel
- King Ashoka
- Sun Yat Sen

■ Attitude

- Components of Attitude: Affective, Cognitive, Behavioral component
- Functions of Attitude: Adjustive, Ego-Defensive, Value-Expressive, Knowledge Function
- Attitude Formation Model
- Impact of Beliefs and Values on Attitude
- Group Influences
- Social Influence
- Persuasion Tactics and Tools of Persuasion
- Moral Attitude formation
- Political Attitude formation

ENVIRONMENT

TEST: 42

TOPIC:

◦ **Environment & Ecology**

■ **Ecology and its dynamics**

- Ecological Hierarchy
- Scope of Ecology
- Habitat & Ecological Niche
- Deep vs Shallow Ecology
- Ecological Principles
- Ecological Community
- Structure and Characteristics of a Community
- Stratification
- Ecotones
- Ecological Dominance
- Seasonal and Diurnal Fluctuation
- Periodicity
- Turnover
- Interdependence
- Ecological Succession
- Types and Process of Succession
- Climax Community
- Range of Tolerance , Maximum Range
- Difference between Ecology, Environment and Ecosystem
- Interaction between Species

■ **Ecosystem and its Dynamics**

- Ecosystem Definitions
- Functions and Properties of Ecosystem
- The Structure/Components of Ecosystem

- Types of ecosystem
 - Terrestrial Ecosystem
 - Forest Ecosystem in India
 - Aquatic Ecosystem
- Abiotic Components
- Biotic Components
- Ecosystem Dynamics
- Flow of Energy in Ecosystem
- Trophic Levels
- Food Chain

■ **Biogeochemical Cycles**

- Gaseous Cycle
- Carbon Cycle
- Human Impact on the Carbon Cycle
- Effects of High Concentration of Greenhouse Gases
- Hydrological Cycle
- Nitrogen Cycle
- Human Impact on the Nitrogen Cycle
- Oxygen Cycle
- Sedimentary Cycle
- Sulphur Cycle
- Human Impact on the Sulphur Cycle
- Phosphorus Cycle

■ **Biomes**

- Global Biomes
- Major Biomes of the World
- WWF Classification of Biomes
- Terrestrial Biomes
- Aquatic Biomes

TEST: 43**TOPIC:**◦ **Environmental Pollution**■ **Pollution and Degradation**

- Air Pollution
 - Sources of Air Pollution
 - Effects of Air Pollution
 - Classification of Air Pollutant
 - Control Measures of Air Pollution
 - Air Pollution Disasters
 - Long Range Transport of Gaseous
 - Air Pollutants
 - National Ambient Air Quality Standards
- Water Pollution
 - Sources of Water Pollution
 - Types of Water Pollutants
 - Effects of Water Pollution
 - Water Quality Standards
 - Control of Water Pollution
 - Thermal Pollution
 - Sources of Thermal Pollution
 - Effects of Thermal Pollution
 - Control of Thermal Pollution
 - Soil Pollution or Land Degradation
 - Sources of Soil Pollution
 - Effects of Soil Pollution
 - Control Measures
 - Land Degradation
 - Causes and Impact of Land Degradation
 - Desertification
- Sustainable Land Management
- Soil Erosion
- Problems due to Excessive Irrigation
- Soil Conservation
- Noise Pollution
- Air-borne Diseases
- Toxic Substances: Toxicant, Toxicity and Toxicology
- Factors affecting toxicity
- Carcinogens
- Pollution Indicator Species
- Acid Rain
- Bio-Remediation
- Environment-Related Diseases
- Asbestosis
- Silicosis
- Emphysema
- Sick Building Syndrome
- Minamata Disease
- Itai-Itai Disease
- Blue Baby Syndrome
- Pneumoconiosis Disease
 - Solid Waste Management
- Sources of Solid Waste
- Effect of Solid Waste
- Control Measures of Solid Waste
- Solid Waste Management Rules

- Hazardous Waste Management
 - Climate Change
 - Urbanization and Climate
- Pollution in metros and climate change
- Real estate boom and environment degradation
- Urban Heat Island
- Polythene bags and pollution
- Methane generation from waste

TEST: 44**TOPIC:**

- **Biodiversity, Climate Change**

■ Biosphere

- Extent of the Biosphere
- Working of the Biosphere
- Importance of the Biosphere
- Alpha, Beta, Gamma Diversity
- Biomes
- Global Biomes
- Major Biomes of the World
- WWF Classification of Biomes
- Terrestrial Biomes
- Aquatic Biomes
- Indian Biomes

■ Biodiversity

- Types of Biodiversity
- Value of the Biodiversity
- Threats to Biodiversity
- Causes of Biodiversity losses ('The Evil Quartet')
- Invasive species
- Effects of Loss of Bio-Diversity
- Extinction of Species
- Types - Natural, Mass, Anthropogenic

- Causes of Extinction
- Consequences of Extinction of Species

■ Biodiversity Conservation

- Conservation Strategies
- Conservation Tools
- IUCN
- IUCN Red List
- Ecologically Sensitive Area (ESAs)
- In-situ methods of conservation of biodiversity
- Advantages of In-situ Conservation
- Disadvantages of In-situ conservation
- Ex-situ Methods of Conservation of Biodiversity

■ Climate Change

- Factors Affecting Climate Change
- Impact of climate change & its mitigation
- Climate Change Management
- Conventions
- International Organisations

TEST: 45**TOPIC:**

- **Environmental Governance**

■ Environmental Impact**■ Assessment Sustainable****■ Practices**

- Impact of Agriculture on Environment
- Sustainable Agriculture
- Sustainable Agriculture
- Hi-tech Farming Methods
- Rain Water Harvesting
- Green Buildings and their Rating System in India
- Eco-tourism-Advantages & Disadvantages of Eco-tourism

■ Environmental Laws

- Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection
- Salient Features of Air (Prevention and Control of Pollution) Act, 1981*
- Salient Features of Water (Prevention and Control of Pollution) Act, 1974
- Salient features of Forest Conservation Act, 1980
- Salient Features of Wildlife Protection Act, 1972
- Salient Features of Environment (Protection) Act, 1986
- Role of Government in Environmental Protection

■ Environment related Institutions and Organizations

- Pollution Control Boards
- National Green Tribunal
- Forest Survey of India

■ National Board for Wildlife Schemes

- National Mission for Clean Ganga
- India Signs Global Environment Facility Grant
- Wood in Good Campaign
- Boat Lab to Study Brahmaputra
- Wildlife Action Plan
- SECURE Himalayas
- Strategic Plan for Human-Elephant Conflict
- Save the Sparrow
- Land Degradation Neutrality
- Biodiversity Heritage Site - Ameenpur Lake
- Energy Conservation Building Code
- Special Protection Force for Rhinos
- Regional Project on Stubble Burning
- Blue Flag Pilot Project
- National Afforestation Program
- National River Conservation Plan
- National Mission for Clean Ganga
- National Air Quality Index (AQI)
- National Action Programme to Combat Desertification
- Bharat Stage Norms

■ International Environmental Governance

- UNEP
- UNDP
- Centre for Biological Diversity
- WWF for Nature
- IUCN - Red List
- Birdlife International

- International Conventions / Protocols & their Objectives

■ Conservation Efforts: India and World

- Ramsar Convention
- Ramsar Sites
- Montreux Record
- Extent and distribution of wetlands in India
- Conserving the wetlands of India
- State of protected areas in the world
- UNESCO Man and the Biosphere Program (MAB)
- Characteristics of biosphere reserves
- International agreements for biodiversity conservation
- Convention on Biological Diversity
- Cartagena Protocol
- Nagoya Protocol
- Aichi Biodiversity Targets
- Important Coastal and Marine Biodiversity Areas of India
- Important Bird Areas (IBAs) of India
- Global Tiger Initiative
- Project Tiger
- Project Elephant
- Indian Rhino Vision
- Ganges Dolphin Project
- Vulture Conservation Project
- Project Snow Leopard
- Crocodile Conservation Project
- Secure Himalaya
- Captive Breeding
- Recovery Programme for Critically Species
- Use of indigenous knowledge for conserving biodiversity
- Seed village
- International Biodiversity conservations
- CITES
- TRAFFIC
- CAWT
- Stockholm Convention
- Basel Convention
- Rotterdam Convention
- UNCCD
- IWC
- Vienna Convention
- Minamata Convention

■ Environmental Governance Environmental Laws

- Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection
- Salient Features of Air (Prevention and Control of Pollution) Act, 1981
- Salient Features of Water (Prevention and Control of Pollution) Act, 1974
- Salient features of Forest Conservation Act, 1980
- Salient Features of Wildlife Protection Act, 1972
- Salient Features of Environment (Protection) Act, 1986
- Role of Government in Environmental Protection

- National Forest Policy, 1988
- Biological Diversity Act 2002
- Schedule Tribes and Other Forest Dwellers Act 2006
- Bio-Medical Waste Management Rules, 2016
- E-waste (Management & Handling) Rules, 2016
- Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016

■ Environment related Institutions and Organizations

- Pollution Control Boards
- National Green Tribunal
- Forest Survey of India
- National Board for Wildlife
- CAMPA
- Joint Forestry Management

- Wildlife Crime Control Bureau

■ Schemes

- National Mission for Clean Ganga
- India Signs Global Environment Facility Grant
- Wood in Good Campaign
- Boat Lab to Study Brahmaputra
- Wildlife Action Plan
- SECURE Himalayas
- Strategic Plan for Human-Elephant Conflict
- Save the Sparrow
- Land Degradation Neutrality
- Biodiversity Heritage Site – Ameenpur Lake
- Energy Conservation Building Code
- Special Protection Force for Rhinos

SCIENCE & TECHNOLOGY

TEST: 46

TOPIC:

- Biotechnology, Nano technology, Intellectual property rights,

■ Nano-Science & Nano-Technology

- Nanoscience Nanotechnology and Nano materials
- Applications of Nanotechnology
- Health & Environmental Impacts of Nanotechnology
- Social & Ethical Impacts
- Nano-Science& Nanotechnology in India

■ Biotechnology

- Application of Biotechnology
- Biotechnology Projects
- Issue of Bio-Piracy

- Bioinformatics
- Biotechnology and IPR Issue
- Ethical Dimension In Biotechnology
- Intellectual Property Rights: Issues & Concerns

■ IPR (Intellectual Property Rights)

- Copy Rights
- Trademarks
- Patents
- Industrial Design
- Trade Secrets
- IPR and Agriculture
- WIPO

TEST: 47

TOPIC:

- Computer and IT, AI, robotics, Space, defence

■ IT, Telcom & Electronics

- IT Industry in India
- Applications of Information Technology
- Display Technologies
- Telecommunication
- Government Initiatives
- Contemporary Debates

■ Robotics

- What is Robotics?
- Machine vs Computer vs Robots
- Parts of a Robot
- Controller
- Manipulator
- End Effector
- Sensor
- Classification of Robots
- Rolling Robots

- Walking Robots
- Autonomous Robots
- Artificial Intelligence
- Advantages and Disadvantages of Robot
- Applications of Robotics
- Industrial Sector
- Aerospace
- Healthcare Delivery
- Outer Space
- Exploration
- Military Robots
- Disaster Areas
- Entertainment
- Agriculture
- Domestic work

■ Renewable Energy

- Ocean Thermal Energy Conversion (OTEC)
- Concept of Green Building
- Tidal , Wave , Geothermal Energy , Fuel Cells

■ IPR (Intellectual Property Rights)

- Copy Rights
- Trademarks
- Patents
- Industrial Design
- Trade Secrets
- IPR and Agriculture
- WIPO

■ Miscellaneous

- Nobel Prize
- Raman Effect

- Li-Fi
- Vaterite
- Dry Sorbent Injection (DSI)
- Microcrystallites
- SARAS
- Silver Copper Telluride
- Ice VII
- Indian National Centre for Ocean Information Service (INCOIS)
- Lithium Ion Battery
- Super Conductivity

■ Space

- Outer Space Treaty
- Neutrino Observatory
- Solar Mission- Aditya
- Chandrayaan-2 Mission
- Gravitational Waves
- Importance Of Navigation System
- Reusable Launch Vehicle
- About S N Bose
- Stephen Hawking
- Space Activities Bill, 2017
- Gaganyaan
- Spitzer Space telescope
- Chandra X-ray Observatory
- Multi-Application Solar Telescope
- RESOURCESAT – 2
- Astrosat
- Sunspot
- Neutron Stars
- Air-breathing propulsion system
- Space Junk
- Graveyard Orbit
- Super cluster of galaxies- Saraswati

- Hyperspectral imaging satellite
- Water propulsion System
- Saturn-Cassini Mission
- OSIRIS-Rex
- NISAR
- GSAT-17
- Long March-4B rocket
- (CONTEMPORARY)

■ Space

- Types of orbits
- Launch Vehicle
- Satellite communication in India
- INSAT Satellite application
- Remote sensing applications
- Cryogenic rockets
- Global Positioning System
- Galileo
- GLONASS
- IRNSS
- GAGAN
- Chandrayaan – I & II
- Mars Orbiter Mission
- Space Organisations
- Space race/Space junk
- Recent updates
- South Asia Satellite: Significance
- Neutrino Observatory
- Solar Mission- ADITYA
- Gravitational Waves
- ISRO's Mission/Programme:
- NASA's Mission/Programme:
- Other Agencies Missions
- Point Nemo

- Exoplanets
- Einstein's theory
- Sun's gravity
- Einstein Ring
- Sunspot Cycle
- International Space Station (ISS)
- Cosmic Microwave Background Radiation (CMBR)
- Green Propellant
- Interstellar Mapping and Acceleration Probe
- GLONASS of Russia
- Atacama Large Millimeter Array (ALMA)
- India-Based Neutrino Observatory
- Human space flight Programme
- NASA's Kepler Space Telescope
- Unispace Nano satellite Assembly & Training programme (UNNATI)
- RAMA (Reconstituting Asteroids into Mechanical Automata)
- Draft Space Activities Bill, 2017
- GRACE MISSION
- Remove DEBRIS
- 'EPIC' planet

■ Nuclear Energy

- Types of nuclear reactions
- Nuclear Power Reactor
- Nuclear Plants in India
- N-Power Policy of India
- Radiation and Radioactivity
- Advantages of Nuclear Energy
- Disadvantages of Nuclear Energy
- Non-energy applications of Nuclear energy

- Impact of Radiation
- Issue of Radioactive Waste
- Institutions involved in Nuclear energy
- Development, AERB
- Safety standards in Nuclear Power plants
- Nuclear & Radiological Disasters

■ Defense

- Missile system and classification
- On the basis of type
- On the basis of launch vehicle
- On the basis of Range
- On the basis of propulsion system
- India's Missile Development Program
- Agni
- Prithvi
- Trishul
- Nag
- Dhanush
- Astra
- Prahaar
- BrahMos Missile System
- Indian Submarines and Naval Ships
- Light Combat Aircraft
- Unmanned Aerial Vehicle
- Stealth technology
- Chemical Weapon
- Biological Weapon
- Man Portable Anti-Tank Guided Missile
- Pinaka Rocket
- Scorpene Submarine Programme
- Solid Fuel Ducted Ramjet (SFDR)
- Defence Innovation Hubs
- Defence Industry Corridor
- Mission RakshaGyan Shakti
- Intermediate Range Nuclear Forces Treaty, 1987
- Project 75

TEST: 48

TOPIC:

- **Contribution of Indians in science and technology, Application of science and tech in everyday life**

■ Achievements of Indians in science & technology

- Scientists of Ancient India
- Science and Scientists of Medieval India
- Scientists of Modern India

■ Policies & Reports related to Science

- Technology Vision Document 2035
- National Biotechnology Development

Strategy 2015-2020

- National Intellectual Property Rights Policy
- Policy on Synthetic Biology
- Law Commission Report on Human DNA Profiling

■ Diseases

- Mother-to-Child Transmission of HIV
- Nipah Virus Infection

- Avian Influenza or Bird Flu
- Bovine TB
- Encephalitis
- Kyasanoor Forest Disease (Monkey Fever)
- Hospital Acquired Infection
- Rotavirus
- Middle East Respiratory Syndrome Virus
- Swine Flu
- Chikanguniya
- Tuberculosis

INTERNAL SECURITY

TEST: 49

TOPIC:

- Linkages between Development and Spread of Extremism+ Role of External State and Non-state Actors in creating challenges to Internal Security+ Linkages of Organized Crime with Terrorism

■ Internal Security Challenges

- Social Diversity as Issues of Security Threat
- Challenges from within India
- Neighbours as Issue of Security Threat:
 - Pakistan
 - China
 - Myanmar
 - Bangladesh
 - Bhutan
 - Nepal
 - Sri Lanka
- Non-State Actors as Issue of Security Threat
- Global Indices and Measurement of Vulnerability of a State towards such Non-State Actors
- Law and Order vs. Internal Security

■ Terrorism Threat to India

- Changing face of Terrorism
- Terror Threats Faced by India
- Broader Framework to Deal with Terrorism

■ Organized Crime

- Types of Organized Crime
- Problems in controlling organized crimes
- Combating organized crimes
- Linkage of Terrorism and Organized Crime in India
- Linkage between Development and Spread
- Why naxalism is biggest threat to internal security?

■ Insurgency in Northeast

- Introduction
- Issues & Conflicts
- Assam Insurgency

TEST: 50

TOPIC:

- 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.

■ Basics of Cyber Security

- Basic Definition
- Types of Cyber Crimes
- Impact and Steps needed
- Recent Incident: Ransomware
- National Cyber Security Policy of India 2013

■ Cyber Warfare

- Factors Contributing/Aggravating Rise of Cyber Attack
- Recent Initiatives for Tackling Cyber Warfare
- Way Ahead

■ Social Media and Internal Security Threat

- Regulation of Social Media in India for Internal Security
- Challenges in Monitoring Social Media

■ Money Laundering

- Meaning of Money Laundering
- Harmful Effects of Money Laundering
- Steps taken by the Government

■ Black Money in India

- Parallel Economy in India
- Measures taken to curb Black Money?
- Demonetization for curbing black money
- Impact of demonetization on black money
- Criticisms

TEST: 51

TOPIC:

- Security Challenges and their Management in Border Areas + Various Security Forces and Agencies and their Mandate

■ Security Challenges in Border Areas

- Challenges to Border Management
- Issues Faced in Border Management
- Community Participation for Border Management

■ SECURITY FORCES AND THEIR MANDATE

◦ Police Reforms in India

- Organizational Structure
- Duties and Responsibilities of the

Police

- Centre's Role in Policing
- Traditional Security Challenges
- Non-Traditional Security Challenges (NTS)
- Recommendations for Police Reforms
- Police we Want in 21st Century

◦ Various Security Forces and their Mandate

- Assam Rifles
- Border Security Force (BSF)

- Indo-Tibetan Border Police
- Central Industrial Security Force (CISF)
- Central Reserve Police Force
- National Security Guard
- Issues with Paramilitary Forces

◉ **Role of Army in Internal Security**

- Strategic Perspective: Why role of Military has become important?
- National Context
- The Indian Army's Response
- Structural Adaptation
- Doctrinal Development
- Leadership Adaptation
- Long-term Perspective

■ **GOVERNANCE ISSUES RELATED TO INTERNAL SECURITY**

◉ **Threats, Challenges and Vulnerabilities in 21st Century**

- China: The Long-term Challenge
- Managing the China-Pakistan Collusion
- Nuclear, Biological and Chemical Threat
- Aerospace Threats
- Maritime Security
- Natural Resources
- Conflict over Water
- Energy Security
- Global Warming
- Indian Diaspora
- Economic Warfare

◉ **Impact of Governance and Justice**

Delivery System on Internal Security

- Importance of Good Governance in Internal Security
- Reforms Needed

◉ **National Security Mechanism**

- Improving Policing and Intelligence
- Resolving Centre-State Issues in Managing Internal Security

◉ **Issues in Intelligence Services**

- Response Mechanism in India
- What are the Major INTELLIGENCE Challenges?
- Steps to tackle the flaws
- What are the probable measures to improve Intelligence Services in India?
- How to Create These Capabilities?

◉ **Strategy for Coastal and Offshore Security**

- Different Facets of Maritime Security
- Different Reporting Mechanism for Handling Security
- Importance of Coastal Community Participation

◉ **Make in India in Defence**

- Present Scenario
- Make in India in Defence
- Government Policy
- Strategy for Indigenization
- Skill Development
- Technology acquisition

INTERNATIONAL RELATIONS**TEST: 52****TOPIC:**◉ **India & Its Neighbourhood- Relations****■ India and Its Neighbours**

- ◉ India-China
- ◉ Border dispute
- ◉ China's string of pearls
- ◉ China's Belt and Road Initiative: Prospects and Pitfalls
- ◉ Maritime Silk Road" linking the Indian and Pacific Oceans
- ◉ Why India is alarmed regarding BRI?
- ◉ India's trade deficit with China
- ◉ China's Malacca Dilemma
- ◉ 2+1 Dialogue mechanism proposed by China
- ◉ A rising China: Challenges the US primacy in Asia and role of India
- ◉ Chinese project of diverting Tibetan waters
- ◉ South China Sea: objection of China to India's presence
- ◉ China denies CPEC backing as 'debt trap' for Pakistan (Debt trap diplomacy of China)
- ◉ The Unintended Consequences of India's Policy on Citizenship for Tibetan Refugees
- ◉ China's Economic Slowdown

■ India-Pakistan

- ◉ Indo-Pak Relations : Border Dispute and J&K issue

- ◉ Terrorism emanating from Pakistan
- ◉ Indus waters policy shift
- ◉ Dispute over Gilgit-Baltistan
- ◉ CPEC in PoK
- ◉ Nuclear India-Pak-US
- ◉ Indian stance regarding Baluchistan
- ◉ India Bhutan
- ◉ Bhutan's significance for Indian Foreign policy
- ◉ India-Bhutan Friendship Treaty
- ◉ Objection of Bhutan to India's Motor vehicle agreement
- ◉ Bhutan's rejection of China's BRI

■ India-Nepal

- ◉ Indo-Nepal Relations : Fluctuating ties
- ◉ Nepal's tilt towards China
- ◉ Nepal-China Transit Agreement: An Evaluation
- ◉ India's concern about Nepal's new Constitution
- ◉ The Issue of Water and Hydropower Cooperation
- ◉ Nepal Bharat Maitri Project

■ India-Myanmar

- ◉ Democracy in Myanmar
- ◉ Scope for cooperation between N-E India & Myanmar

- Rohingya issue
- Buddhist Chauvinism
- Major Projects: Kaladan multimodal corridor, India-Myanmar Thailand trilateral highway

■ India-Bangladesh

- Indo-Bangladesh Relations
- Water Dispute Teesta water issue & Ganga river dispute
- Bangladesh demand to stop the construction of the Tipaimukh Hydro- Electric Power Project on the Barak River
- Differences in approach of India and China towards Bangladesh
- Illegal Immigration
- Understanding Bangladesh's Unexpected Development Success

■ India-Afghanistan

- Instability in Afghanistan and role of India
- India's cooperation in Afghanistan
- Moscow Format
- India-Maldives
- Geostrategic Importance of Maldives
- Recent developments in Maldives exemplifying recalibration of ties
- FTA Between China and Maldives - Warning For India

■ India-Sri Lanka

- Sino-Sri Lanka Relationship
- Fishermen issue
- Issues on 13th amendment (Tamil & Minority Rights)

- Human Right violations & OHCHR Resolution on Sri Lanka

■ Indian Ocean Region

- Indian Ocean region and world affairs
- India is a "Net Security Provider" of the Indian Ocean
- Increasing Chinese influence in the Indian Ocean
- 20 years of formation of IORA
- Piracy in the Indian Ocean
- Seychelles' parliament refusal to ratify an Indian naval base plan on the Assumption Island
- Importance of Seychelles to India

■ Indo-Pacific

- Concept of Indo-Pacific from perspectives different countries
- East Asia Summit acts as a bridge for Indo-Pacific region
- India-Pacific Regional Dialogue

■ SAARC/BIMSTEC/BBIN

- SAARC: Challenges and Prospects
- Intra-low regional trade
- BIMSTEC as an alternative to SAARC
- Nepal withdrew from first ever
- BIMSTEC's military drill in India.
- Progress of BBIN project
- Global Issues
- Disarmament
- Climate Change
- Terrorism
- Global Governance

- Indian Diaspora

■ India and Extended Neighbourhood

- India-Indonesia
- Indonesia's vision as a "Global Maritime Axis" and Its significance for India
- India-Singapore
- India-Singapore Bilateral Agreement for naval cooperation
- Thailand
- Indo-Thai relations: Challenges & opportunities
- India-Vietnam
- India -Vietnam's strategic cooperation
- India-ASEAN
- Importance of ASEAN in establishing peace and stability in region
- ASEAN-India Relations: Prospects and Challenges in Economic Partnership
- India's cooperation with the ASEAN has been less than China and Japan

■ Central Asia

- Connect Central Asia Policy
- Importance of central Asia
- Golden Crescent
- Connectivity Projects (INSTC, Ashgabat Agreement, TAPI Pipeline)
- India Mongolia
- India-Mongolia Bilateral Cooperation
- Mongolia launched construction

of first strategically oil refinery, constructed by India

■ West Asia/Middle East

- Importance of West Asia for India
- Change in West Asian strategic thinking
- China's engagement in West Asia and challenges to India
- Reasons behind India's active strategic engagements with West Asian countries without participating in West Asian turmoil
- Shia-Sunni wedge in West Asian countries
- Importance of Saudi Arabia ,Challenges in India-Saudi Arabia Relations
- Plight on Indian migrant workers.
- Relations between India and United Arab Emirates
- Middle East to India Deep water Pipeline (MEIDP)
- India-Iran
- Consolidating India-Iran Cooperation
- Connectivity- Importance of Chabahar port
- Iran nuclear deal: Iran Sanctions & India's Options
- India Israel
- From 'in the closet' into a fast developing open relationship
- strategic significance of the Indo-Israeli relationship
- De-hyphenation of Israel and Palestine

TEST: 53

TOPIC:

- Bilateral, regional and global groupings and agreements involving India and/or affecting India's interests

■ India and World

◦ India-Africa

- India-Africa Trade relations: Prospects
- Contribution of Indian Diaspora in various fields in Africa.
- African co-operation in ensuring security and peace in Indian Ocean region
- India's Foreign Direct Investment (FDI) in Africa's hydrocarbon sector. Strategic Partnership between India and South Africa

◦ India-Europe

- The first India-Nordic Summit
- What is GDPR? its implication for India
- influx of refugees into Europe
- irritants between India-EU (FTA)
- A new European Union strategy for India
- Ukrainian Crisis' has lead to resurgence of cold war
- Brief on India-UK relations
- Brief on India-France relations

◦ India and USA

- Brief of India-US relations
- Mutually supportive Defence cooperation relationship

- logjams in implementation of civil nuclear cooperation agreement between India and the USA
- Bilateral Social Security Agreements
- The rise of protectionist regime in USA and the challenges for the Indian
- Importance of New Security strategy (NSS) of USA for India
- Recent US extraterritorial Sanctions and their potential impacts on India
- Potential impact of US sanctions towards Russia, Iran and North Korea using CAATSA on US-India relation,
- USA pulls out of INF treaty-Its implication for India
- Pivot to the East policy of the USA
- The Arithmetic of India-U.S. Relations and the Russian Factor
- The First India-US 2+2 Dialogue: An Assessment
- Challenges in Implementing JCPOA after the US Withdrawal
- LEMA-Logistics Exchange Memorandum of Agreement
- Visa, Free Trade and WTO

◦ India-Canada

- Uranium Deal

◉ India-Russia

- India's increasing defence deal with USA, Israel
- Russian arms deal with Pakistan
- Stagnation between India-Russia Relations
- Russian proposal of 'Eurasian Economic Union'

◉ India-Japan

- Japan's funding of major projects in India
- Nuclear Pact
- Japan's Pacifism
- 13th annual India - Japan summit

◉ India-Australia

- Australia's "An India Economic Strategy to 2035", a vision document
- Nuclear cooperation between India- Australia

◉ International Organisation and Global Issues**◉ United Nation and UNSC**

- UNSC Reforms : Importance and Challenges

◉ BRICS

- Advantages of setting up the New Development Bank
- Prospects and Challenges of BRICS

◉ Commonwealth

- Shared history of Commonwealth
- Relevance in current time and Areas of Cooperation

◉ Shanghai Cooperation Organization

- Benefits and challenges of India's entry in SCO

◉ IMF – The International Monetary Fund:

- issues concerning the reforms in Bretton Wood twins and needs structural reforms to reflect post globalization realities of the world

◉ NATO – The North Atlantic Treaty Organization:

- Relevance of NATO in post USSR era

◉ TPP – The Trans-Pacific Partnership:

- Will RCEP prove to be a competitor of TPP in the Asia-Pacific region

◉ WTO – The World Trade Organization:

- Doha round and Singapore Agenda: Challenges in implementation
- USA-India dispute
- Need to revamp WTO
- Arctic Council: Arctic is attracting global interest

◉ IAEA

- India's nuclear facilities under IAEA Safeguards

TEST: 54

TOPIC:

- Effect of policies and politics of developed and developing countries on India's interests, Indian Diaspora, Important International institutions, agencies and forums - their structure, mandate

■ UK Referendum – Brexit

- consequences of Brexit for United Kingdom and European Union,
- effect of Brexit on China and India

■ Refugee problem:

- Does the world need a new UN convention on refugees
- United Nations member states (except the U.S. and Hungary) agreed on a Global Compact for Migration to better manage international migration

■ Terrorism

- Reasons of rise of far right wing politics in many developed and developing countries
- the Comprehensive Convention on International Terrorism (CCIT)
- UNSC's 1267 Al Qaeda Sanctions Committee on Jaish-e-Mohammad Chief Masood Azhar
- Security Council Resolution 2322 to enhance the efficacy of international legal and judicial systems
- Lone-wolf attacks.

■ Yemen Crisis

- Yemen Crisis: Reasons and impacts

■ South China Sea

- Contention over South China Sea and South China Sea Ruling
- Senkaku and Diaoyu conflict between China and Japan
- Role of India in the wake of increasing South China Sea dispute

■ Other

- World coming towards a new multipolar order with USA as a waning superpower and China-Russia axis as an emerging challenger
- India and the International Solar Alliance
- Venezuela-Columbia Border Issue
- AIIB & The Changing World Order
- Multilateral export control regimes : Significance and challenges of India's Entry
- US-Venezuela Stand-off : Impact on global Oil Prices
- Renaissance and Reticence in India's North- South Connectivity Platform
- Strategic Petroleum Reserves: Stocking Oil for Rainy Days
- QUAD: Strategic and economic benefits
- India has been accorded associate

member status by IEA,; Its

importance for India

- ◉ Why RIC is as important to India as JAI and BRICS?
- ◉ Rising Protectionism and Currency Wars

■ Indian Diaspora

- ◉ Role played by Indian Diaspora
- ◉ Issue of safety of Indians abroad
- ◉ Schemes for Welfare of Overseas Indian
- ◉ Indian Diaspora in Gulf
- ◉ Nitaqat law and Present Status

SOCIETY

TEST: 55
(SOCIETY - 1)

Topic:

- Salient Features of Indian Society
- Diversity of India
- Effects of Globalization on Indian Society

■ Salient feature of Indian society

- The Indian Society Is Syncretic And Dynamic
- The Merging Of Tradition With Modernism
- The Underlying Theme Of Unity Is Diversity
- The Society Is Largely Agrarian And Rural
- Class And Caste Divide
- Changes within Indian Society and their Repercussions

■ Diversity of India

- Nature and extent of diversity in India
- Importance of diversity
- Forms of Diversity in India
- Cultural elements of unity in diversity
- Impact of Western Culture on diversity of India
- Extreme Diverse Geography
- Bonds of Unity In India
- Constitutional Safeguards for diversity in India – Role of Constitutional Framers
- Factors Leading to Unity amidst Diversity in India

■ Challenges of Diversity to Unity (Challenges to National

Integration)

- Diversity of Constituents
- Regionalism and cultural identities
- Casteism
- Linguism
- Communalism
- Social Inequalities
- Regional Disparities
- Ethno-Nationality and Ethnic Conflicts
- Tribal Identity

■ Effects of Globalization on Indian Society

- Causes of globalisation
- Cost and benefits of globalisation
- Advantages of globalization
- Disadvantages of globalization
- Globalization and its impact on Indian economy
- Developments and challenges
- Advent of New Economic Policy
- Impact of globalization on agricultural sector
- Impact of globalization on Financial Sector
- Impact on Export and Import
- Impact of Globalization on Indian Culture

- Social Dimension of globalization
- Impact of Globalization on Women in India
- Impact of globalization on Caste System
- Impact of globalization on Children
- Impact of globalization on elderly
- population
- Political consequences of globalization
- Deglobalisation
- Types of Protectionism
- Alter-globalisation

TEST: 56
(SOCIETY - 2)**Topic:**

- Communalism
- Regionalism
- Secularism
- Role of Women and Women's Organization
- Urbanization, Their Problems and their remedies.

■ Secularism and Secularization

- Western and Indian Concept
- Process of Secularization
- Secularism and Forced Conversion in India

■ Communalism

- Factors Responsible for Communal Violence
- Incidence of communal violence in India
- Measures to Deal with Communalism

■ Regionalism

- Regionalism in India
- Types of Regionalism
- Effects of Regionalism
- Regionalism: Demand for Smaller States
- Strategies to tackle Regionalism
- Sons of Soil Concept

■ Role of Women and Women's Organization

- 19th Century Women Movements
- Under Social Reform Movements
- Women's Issues During Gandhian Era
- Issues in Post Independence Era
- Violence Against Women
- Developmental Movement
- Uniform Civil Code

■ Urbanization & Census 2011**◦ Urbanization**

- Trend and pattern of Urbanization
- Issues Related to Urbanization in India
- Status of Service Delivery and Governance
- Urban Development Projects
- Critical Analysis of Smart City Mission

TEST: 57
(SOCIETY - 3)

Topic:

- Social Empowerment
- Population and Associated Issues
- Poverty and Developmental Issues

■ **Social empowerment**

- Constitutional Provisions Relevant to Social Justice & Empowerment of Scheduled Caste & Scheduled Tribes
- Status Of Minorities In India
- The Scheduled Castes: From Untouchable To Dalit
- Population of the Scheduled Castes
- Types of Disabilities of the SCs
- From Untouchables to the Dalits: The Process of Identity Formation
- Combating Mechanism against Caste Atrocities and Violence
- The State Efforts for Dalit Emancipation
- Tribals In India
- Chronic Indebtedness
- Forest Related Problems
- Destruction of the Forest Environment and the Tribal People
- Development and Displacement
- Analysis of Forest Rights Act

◦ **Social Justice**

- Concept of Casteism in India
- Caste and Politics
- The Reservation Policy Debate
- Social Justice and Social Development

◦ **Social Security in India**

- Concept

- Social Security System in India
- Organized Sector and Social Security
- Unorganised Sector and Social Security
- Centrally Funded Social Assistance Programmes
- Public Initiatives
- Review of the implementation of Social Security Laws in the Country
- Suggestions for Improving the Social Security Matrix

■ **Population**

- Population and overpopulation
- Some theories on population
- Size and growth of population in India
- India enters 37-year period of demographic dividend
- Study on demographic dividend in India by United Nations Population Fund (UNFPA)
- Reasons for High Population in India
- Challenges Associated with Demographic Dividend in India
- How to reap India's demographic dividend
- Empowering youth to reap the demographic dividend
- Demographic dividend to Diasporic Dividend
- Family Planning in India

- Fertility in India
- **CENSUS 2011**
 - Highlights of 2011 Census
 - Analysis of Sex Ratio Data
 - Impact of Skewed Ratio
 - Laws related to Prevent Female Infanticide

- **Recent initiatives**

- Trend and Current Scenario of Literacy in India
- Literacy Challenges in India as Whole
- Efforts to Improve the Literacy in Country
- Child Health Indicators and
- Maternal Health
- Initiatives taken by the Government
- Why the Health schemes fail to bring

change?

- Family Planning and Population Policy of India
- Analysis on Status of Old Age
- Population: Issues & Policy Initiative
- Socio-Economic Caste Census 2011

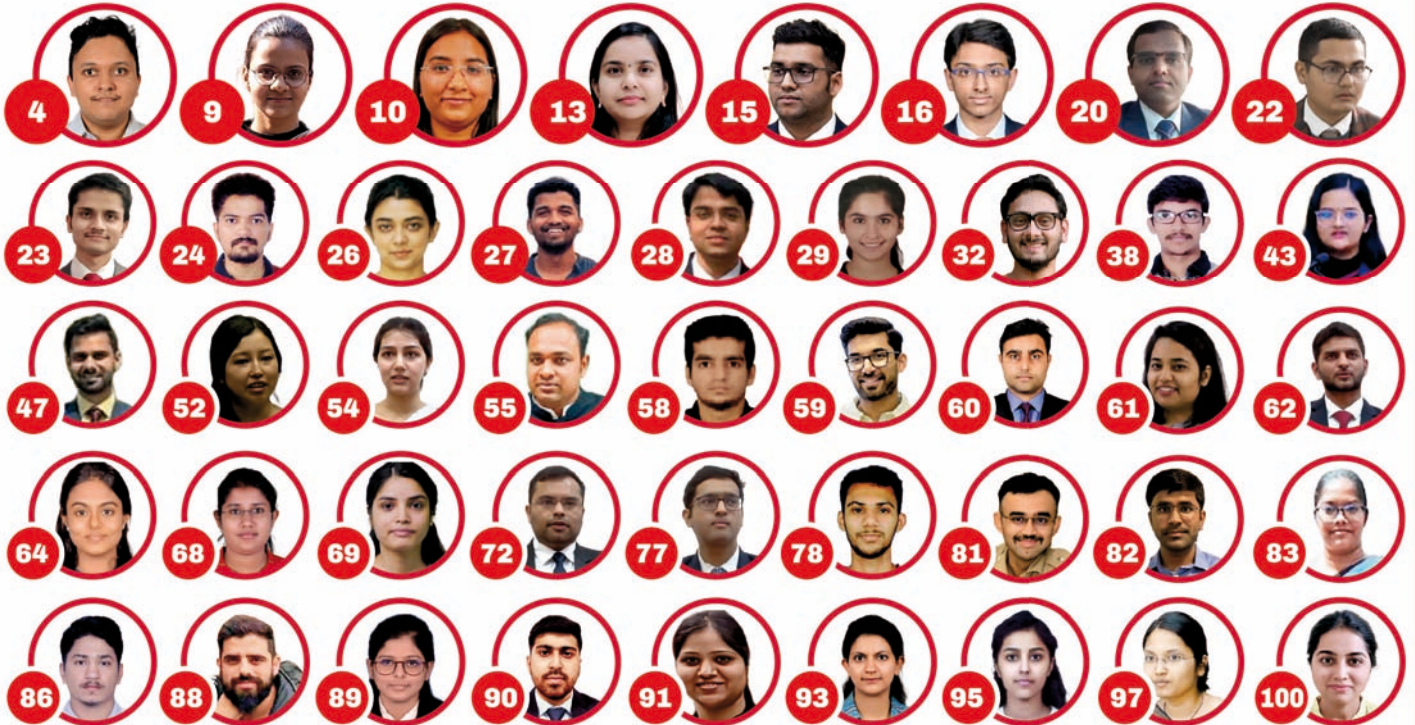
- **Poverty and Developmental Issues**

- Dimensions of Poverty
- Linkage between Poverty and Development
- Recommendations of Rangarajan Committee Report
- Poverty Alleviation Strategy Since Independence
- Programmes for Poverty Alleviation
- Concept of Inequality

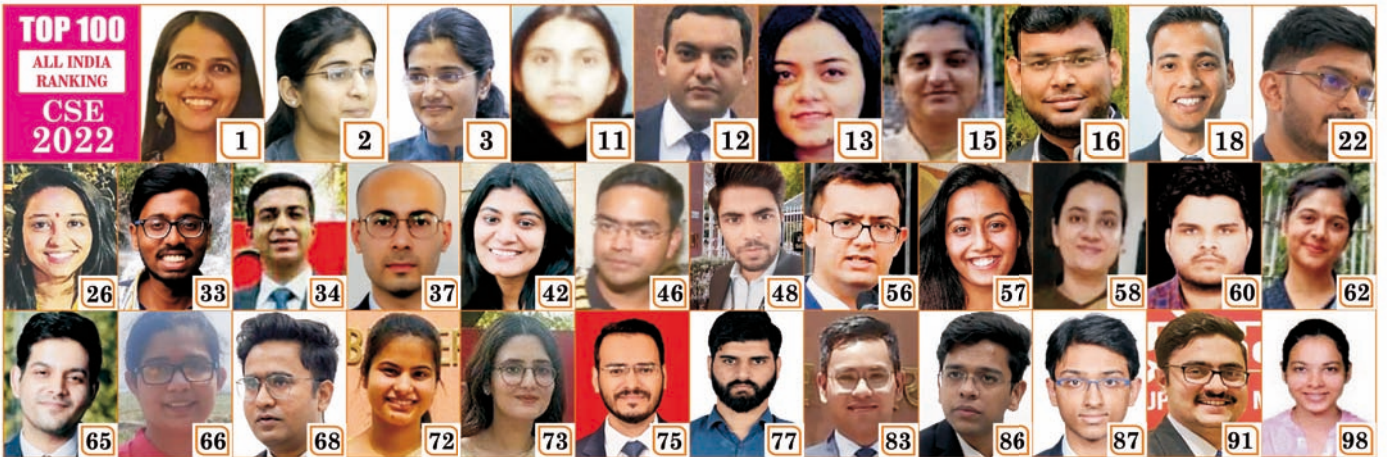


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