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## APPSC GROUP- 1 MAINS REFLECTIONS

OUT OF 129 QUESTIONS  
**78 QUESTIONS**  
ARE DIRECTLY FROM OUR  
**APPSC MAINS TEST SERIES**  
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# OUR UPCOMING BATCHES

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**BATCH STARTS**

**AUGUST 2023**

The reflections of 78 Questions out of 129 are from our APPSC MAINS TEST SERIES. This is the achievement of our dynamic team

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Paper 1 essay

	From MTS	From APPSC mains 2023
1.	2. Communalism in India (essay test 2)	<p><b>Section 2 c</b></p> <p>(c) 'Ek Bharat Shrestha Bharat' is the call to forge national integration and the spirit of collective consciousness. Examine whether India has succeeded to rise above the forces of communal prejudice.</p> <p>‘ఏక భారత్ శ్రేష్ఠ భారత్’ అనేది జాతీయ సమైక్యత మరియు సామూహిక చైతన్య స్ఫూర్తిని పెంపొందించే పిలుపు. మత దురభిమాన శక్తులను అధిగమించడంలో భారతదేశం విజయం సాధించిందే లేదో పరిశీలించండి.</p>
2.	1. How is the role of women and women organizations crucial? (essay test 4)	<p><b>Section 3 a</b></p> <p>(a) Examine the challenges and progress of gender equality and women's rights in the world since the 1995, 'Beijing Declaration and Platform for Action' (BPA).</p> <p>1995, 'బీజింగ్ డిక్లరేషన్ అండ్ ప్లాట్‌ఫాం ఫర్ యాక్షన్'(BPA)నుండి ప్రపంచంలోని లింగ సమానత్వం మరియు మహిళల హక్కుల సవాళ్లు మరియు పురోగతిని పరిశీలించండి.</p>
3.	3. "Dost diplomacy" and its potential to make India "super soft power". (full length essay test)	<p><b>Section 2 b</b></p> <p>(b) "India possesses a countless number of soft power resources that could prove to be greatly beneficial if harnessed properly." In this connection, examine India's soft power — its challenges and opportunities.</p> <p>"భారతదేశం లెక్కలేనన్ని సాఫ్ట్ పవర్ వనరులను కలిగి ఉంది, వాటిని సరిగ్గా వినియోగించుకుంటే చాలా ప్రయోజనకరంగా ఉంటుందని నిరూపించవచ్చు." దీనికి సంబంధించి, భారతదేశం యొక్క సాఫ్ట్ పవర్ — దాని సవాళ్లు మరియు అవకాశాలను పరిశీలించండి.</p>
4.	1. Digital Economy : Do an analysis on how Innovation acts as the key determinant of economic development and social welfare? (essay test 5)	<p><b>Section 1 a</b></p> <p><b>Question asked in similar lines</b></p> <p>(a) Is India's 'Digital Rupee' another version of Cryptocurrency ? Examine India's progress on 'Central Bank Digital Currency' (CBDC) and its implications.</p> <p>భారతదేశపు 'డిజిటల్ రూపాయి' క్రిప్టోకరెన్సీకి మరొక రూపేనా ? 'సెంట్రల్ బ్యాంక్ డిజిటల్ కరెన్సీ' (CBDC) మరియు దాని చిక్కులు పై భారతదేశం యొక్క పురోగతిని పరిశీలించండి.</p>

Questions from Mission Amaravathi:

	From MTS	2023 APPSC questions
1.	Paper 2 1. "What are the distinctive features of the architecture of the Delhi Sultanate, and how did the fusion of Indian and Islamic	Q) 3 a Discuss the features of Mughal architecture and examine the influence

<p>styles of architecture influence the development of monumental structures, such as mosques, tombs, palaces, and forts, during the period of Muslim rule in Delhi? (daily test 17)</p>	<p>of Hindu elements on Mughal architecture.  (here the above question is asked in the same lines that was asked in our test series)</p>
<p>5. Discuss with examples the Mughal architecture in India under different rulers? (sectional test 4)</p>	
<p>2. 4. Discuss the role of the Permanent Settlement and the Ryotwari system in the land revenue settlement policies of the British colonial government, and their long-term impact on Indian agriculture and society. (daily test 19)</p>	<p>Q) 4 a Explain land revenue systems that were introduced by the British. Assess the impact of these revenue systems on the Indian economy.</p>
<p>3. 1. What were the most significant accomplishments and shortcomings of the peasant uprisings in terms of their contributions to the Indian national movement? (daily test 20)</p>	<p>Q) 5 a Examine the factors that led to peasant movement in India and examine its impact on the National movement in India.</p>
<p>4. 2. Socio-Economic and religious factors of Ancient India resulted in the emergence of new religions Jainism and Buddhism. Explain along with their teachings. (sectional test 4)</p>	<p>Q) 1 b Examine the socio religious life and administration of early India with respect to the writings of Chinese travellers such as Fa hien, Hiuen-Tsang, I-Tsang (here this question is asked on similar lines with that of the test series question)</p>



5.	8. Discuss the significance of Gurajada Apparao's play "Kanyasulkam" in the context of Indian literature and social reform movements? (full length test)	Q) 8 a (i) Gurajada Apparao's contribution to social reform through the medium of literature
6.	4. What measures have been taken by the Central government to address the concerns regarding the arbitrary provisions of the Andhra Pradesh Reorganization Act, 2014? (daily test 25) & 4. How did the division of assets and resources between Andhra Pradesh and Telangana impact the economic development and growth of Andhra Pradesh after post bifurcation?	Q) 10 a Examine the inconsistencies of APR Act 2014, that had adversely affected the residuary state AP with regards to apportionment of assets and liabilities?
7.	1. Can you describe the social structure that existed during the Satavahana period, and what were the contributions made by the Satavahanas to their society? (daily test 21)	Q) 6 a Discuss the socio religious conditions of Satavahana period with special reference to prominence bestowed on women
8.	2. Explain the major reasons and nature of Rampa Rebellion how did Alluri Sita Ramaraju contribute to its initiation? (daily test 24)	Q) 9 a Examine the role of Alluri Sitaramaraju as the leader of Rampa rebellion
9.	7. What were the distinctive elements of vijayanagara architecture and discuss the contribution of the Vijayanagara Empire to the development of South Indian architecture? (full length test 2)	Q) 7 a Examine the socio religious and cultural life of the vijayanagara kingdom with respect to the writings of foreign travellers such as Nicolo Conti, Abdur Razak, Duarte Barbosa and Domingo Peas.

<p>10.</p>	<p>3.Can you illustrate the complications that emerged in <b>water disputes between Telangana and Andhra Pradesh</b> after the state's bifurcation? (daily test 25)</p>	<p>Q) 10 b Examine the <b>principles</b> envisaged under schedule eleven of the <b>APR act 2014</b>, with reference to the <b>functioning of the river management boards</b>.</p>
<p>11.</p>	<p>3.What are the key differences between the draft <b>Environment Impact Assessment (EIA) Notification of 2020</b> and the Existing EIA Notification? (daily test 30)</p>	<p>Q) 15 a What is meant <b>by Environment Impact Assessment</b>? Evaluate it. Also give suggestions to make it effective?</p>
<p>12.</p>	<p>3. What are the factors that have influenced the distribution of <b>human habitations</b> in Andhra Pradesh, such as geographical features, historical factors, and economic development? (daily test 28)</p>	<p>Q) 13 b What are different types of <b>rural settlements</b> and factors affecting them? Add a note on rural settlement patterns in India.  (Question was asked in similar lines with that of the test series)</p>
<p>13.</p>	<p>3.What are the main provisions of the <b>Forest Conservation Rules 2022</b> and the associated concerns,Explain? (daily test 36)</p>	<p>Q 14 a Discuss various <b>forest conservation strategies</b> in India?</p>
<p>14.</p>	<p>08.What are the key amendments proposed to the Biological Diversity Act of 2002, and what are the potential benefits and issues associated with these changes? (sectional test 8)</p>	<p>Q 14 b Discuss various insitu conservation strategies of biodiversity in AP (question derived in similar lines)</p>

Questions from Mission Amaravathi:

Paper 3

	From MTS	2023 APPSC questions
1.	<p>Polity</p> <p>3. What do you understand by "judicial review" in Indian context? Enumerate the key provisions in the constitution with respect to judicial review in India. (Daily test 5 )</p>	<p>Q) 5 a</p> <p>Discuss the scope of judicial review in reviewing administrative action, legislative enactments, and judicial decisions.</p>
2.	<p>1. Explain the doctrine of separation of powers as enshrined in the Indian Constitution and how it safeguards against the concentration of power? (full length test 1)</p>	<p>Q) 2 b</p> <p>The National Education Policy (2020) has been criticised as denuding the autonomy of states. In this connection, examine the rationale behind the transfer of matters from the state list to the concurrent list</p>
3.	<p>2. Discuss the issues related to abuse of post of Governor in federal polity failing to function impartially and efficiently. ( daily test 2 )</p>	<p>Q) 2 a</p> <p>The office of governor in certain situations carries with it the exercise of discretionary functions and special responsibilities. Discuss this statement in view of the constitutional provisions</p>
4.	<p>8. (a) Hate Speech poses complex challenges to freedom of speech and expression. What do you understand by hate speech? Discuss its impact in the light of recent SC observation. (sectional test 1)</p>	<p>Q) 1 a</p> <p>Examine the scope of reasonable restrictions and test of reasonableness in connection with Article 19 of the Indian constitution</p>

<p>5.</p>	<p>4. How the Zonal councils are different when they are compared to <b>Inter State councils</b> and National development council? (daily test 2)</p> <p>2. What are the emerging challenges and trends in the Federal structure of India, and how do they affect the <b>balance of powers between the Union and States</b>, and governance in the country? (full length test 1)</p>	<p>Q) 1 b</p> <p>Explain the genesis of the <b>inter state council</b> and discuss its relevance in the context of <b>centre state and inter state coordination and cooperation</b> in India.</p>
<p>6.</p>	<p>4. <b>Finance Commission</b> plays a vital role in <b>fiscal federalism</b>. Critically analyse the statement. (sectional test 2)</p> <p>Governance</p>	<p>Q) 3 b</p> <p>The <b>Finance commission</b> though not being a permanent body, has still maintained its credibility by promoting <b>fiscal democracy</b> in India. Comment</p>
<p>7.</p>	<p>2. Explain the significance of public administration. Examine <b>Kautilya's contribution to administrative theory</b>. (day 6)</p>	<p>Q) 6 a</p> <p>The concept of welfare state has been crystallised in <b>kautilya's ideas</b> long before it came to be envisioned in western Europe. Examine the statement.</p>
<p>8.</p>	<p>6. What is the <b>impact of British rule on the development of Public Administration in India</b>? ( full length test 1) &amp;</p>	<p>Q) 6 b</p> <p>It is observed that much of present day <b>Indian bureaucracy is a result of British administration</b>. In this connection, explain the evolution of civil services in India</p>



	<p>4. Indian administrative structure is largely a legacy of British rule. Discuss. (day 6)</p>	
9.	<p>8. How can civil society organizations like NGO's ensure inclusivity, participation, and transparency in the development processes to ensure that the needs and aspirations of all members of society are considered? (full length test 1)</p>	<p>Q) 8 b NGOs play a crucial role in promoting human rights, defending the marginalized and creating a more just and equitable society. Comment on the role of NGOs in India.</p>
10.	<p>2. What do you understand by capacity development? Discuss its significance in the backdrop of Mission Karmayogi. (daily test 7)</p>	<p>Q) 7 b Explain the scope of civil service reforms in India with a brief note on Mission Karmayogi.</p>
11.	<p>10. Discuss the reasons for corruption in Indian administration? Examine the legal and institutional framework to combat it. (sectional test 2)</p>	<p>Q) 9 b What are the reasons for decline of integrity in civil services? Also, discuss the institutional mechanism to check corruption in India.</p>
12.	<p>4. "Recent amendments to the Right to Information Act will have a profound impact on the autonomy and independence of the Information Commission". Discuss. (daily test 9)</p>	<p>Q) 8 a The making of the Right to Information act , 2005 in India has been largely attributed to the success of civil society movement. Comment.</p>

13.	7. What are the government policies and interventions for promoting renewable energy and what challenges have been faced in implementing them? (full length test 1)	Q) 7 a Government's intervention in development has seen a long way of impressive outcomes in India. In this connection, discuss the Atmanirbhar Bharath mission aimed at making India self reliant.
14.	2. What are quasi-judicial bodies? Explain their role in the governance of the country with help of a suitable example. (daily test 9)	Q) 9 a Explain the quasi judicial nature of administrative tribunals. Examine whether writs and appeals are available against the decisions of the administrative tribunals.
15.	3. Though Citizen Charter acts as tool of Good Governance, it suffers with various limitations. Elaborate. Also suggest measures to improve its effectiveness. (daily test 10)	Q) 10 a Discuss the India experience of citizen charter movement and suggest solutions to improve its impact in India
16.	Ethics: 3. Explain how do Ethics work in Private and Public Relationships? (daily test 11)	Q) 11 a Ethics in public services is an essential component of parliamentary democracy. In this connection discuss the path way towards a Naitik Bharath

17.	2. What are Human values? Describe in detail about the <b>core human values</b> . (daily test 12)	Q) 12 a Discuss the <b>significance of values</b> in the development of personality and socio cultural systems. Add a brief note on the hierarchy of values in India.
18.	1. Integrity and <b>accountability</b> are <b>important dimensions in public service</b> . Justify the statement with recent examples. (sectional test 3)	Q) 11 b <b>Define accountability. Discuss the factors that have lead to weakening of accountability in civil services</b> . Suggest ways to improve the mechanisms for accountability in civil services.
19.	1. Distinguish between attitude and behaviour. <b>How attitude of an individual influence its behaviour</b> (daily test 13) 4. Compare and contrast moral attitudes with <b>political attitudes</b> . (daily test 13)	Q) 13 a <b>Do attitude influence behaviour?</b> Discuss the polarization of <b>political attitudes in India</b> .
20.	13. How does <b>persuasion</b> influence attitudes? What are the key factors that determine the effectiveness of persuasive messages, such as the source, message content, and receiver characteristics? (full length test 1)	Q) 13 b <b>Define persuasion</b> and its construct. Can the power of persuasion be used by civil servants in order to realise the ends and objectives of a new India? Substantiate.

21.	2. Discuss some of the <b>Ethical issues</b> that are often witnessed in <b>international relations</b> . (daily test 14)	Q) 14 b What is meant by <b>international ethics</b> ? Explain the significance of ethics in international dispute resolutions and environmental cooperation among nations.
22.	1. Write a short note on below terms. a) Professional Ethics b) <b>Leadership Ethics</b> (daily test 14)	Q) 14 a Does popular democracy breed distrust in the public towards their representatives? Discuss the scope of <b>Ethical leadership</b> in democracy and politics?
23.	10. What are the <b>reforms proposed in Direct taxation</b> in the Union budget of 2023-24? (sectional test 10)	Q 15 a Are <b>direct taxes</b> transferrable or non transferable? Explain the <b>recent direct tax reforms</b> undertaken in India?

## Questions from Mission Amaravathi:

Paper 4 Economy

	From MTS	From APPSC mains 2023
1.	1. How has the <b>falling rupee value</b> impacted the Indian economy, and what are the causes and consequences of this challenge. Discuss? (full length test 4)	Q 1 b (b) Is the exchange rate of the Indian Rupee fully determined by the market? Explain the effects of Rupee Depreciation on the Indian Economy. Discuss the role of the RBI in defending the falling rupee. 10 (అ) గత ఎనిమిది సంవత్సరాలలో భారత ఆర్థిక వ్యవస్థపై 'న్యూ ఏజ్' (నూతన శకం) సంస్కరణల ప్రభావాన్ని చర్చించండి. ఈ దశాబ్దంలో (2023-30) భారతదేశం యొక్క వృద్ధి సంభావ్యత పరిధిని పరిశీలించండి.
2.	7. What is the <b>Rainbow Revolution</b> , and discuss the objectives and key components of it? (full length test 4) & 2. Discuss the need for Rainbow revolution? (daily test 46)	Q 15 a (a) Explain the impact of rainbow revolution in India. Discuss the scope for Industrial transformation in Indian agriculture.

<p>3.</p> <p>4.</p> <p>5.</p> <p>6.</p> <p>7.</p> <p>8.</p> <p>9.</p>	<p>4. How do monetary and <b>fiscal policies</b> impact the Indian economy? What are <b>the major tools</b> used by the Reserve Bank of India and the government of India to implement <b>monetary and fiscal policies?</b> (daily test 41)</p> <p>1. What are the <b>major projects of external assistance in Andhra Pradesh</b> and how have they contributed to the state's development? (daily test 42)</p> <p>2 . What are the key issues related to <b>GST implementation,</b> and how can they be addressed.Discuss? (daily test 43)</p> <p>1.Explain the Constitutional Provisions regarding Finance Commission and also its importance in maintaining Fiscal federalism in India? (sectional test 10)</p> <p>5. Based on the comparison of Andhra Pradesh state's expenditure on key sectors with the national average(Based on budget 2023-2024), what policy recommendations can be suggested to optimize expenditure allocation and enhance the performance of key sectors in the state? (full length test 4)</p> <p>1. What are the issues of conflict that have arisen after the bifurcation of Andhra Pradesh, and how have they affected the state's budgeting process? (daily test 44)</p> <p>7.What are the problems associated with Present APMC regime and how <b>E-NAM can</b> help in addressing some of this issues? (sectional test 11)</p>	<p><b>Q 2 b</b></p> <p>(b) What are the different fiscal policy tools used in India ? Can Customs and Excise Duties be used as flexible fiscal policy tools in order to increase revenue and control inflation ? Discuss.</p> <p>(అ) మాన్యతరీ పాలసీ (ట్రాన్స్మిషన్ (ద్రవ్య విధాన ప్రసారం) అంటే ఏమిటి? ద్రవ్య విధాన ప్రక్రియ నమయంలో ఎదుర్కొన్న సమస్యలను వివరించండి మరియు ఈ సమస్యలను అధిగమించడానికి చర్యలను సూచించండి.</p> <p><b>Q 3 a</b></p> <p>(a) What are externally aided projects ? Discuss the principles, funding and objectives of Andhra Pradesh Irrigation and Agriculture Transformation Project (APIIATP). Provide a brief note on the scope of beneficiaries with respect to the APIIATP. 10</p> <p><b>Q 4 a</b></p> <p>(a) What is meant by the 'Goods and Services Tax' (GST) ? Explain the steps taken by the Indian Government to facilitate trade and 'ease of doing business' under the GST regime.</p> <p><b>Q 4 b</b></p> <p>(b) Mention the recommendations of the 15th Finance Commission with respect to Fiscal Consolidation. Discuss the progress and present situation of 'Fiscal Consolidation' in India.</p> <p><b>Q 5 a</b></p> <p>(a) Explain the importance of budgetary policy in reallocation of resources. Briefly discuss the allocation of budgetary resources in the social services sector with respect to the AP Budget (2023 - 24).</p> <p><b>Q 3 b</b></p> <p><b>OR</b></p> <p>(b) Briefly discuss the impact of bifurcation on the economy of Andhra Pradesh with respect to sectoral changes and resource gap. Provide a brief note on the steps taken by the Government of Andhra Pradesh to mobilize resources.</p> <p><b>Q 15 b</b></p> <p>(b) Explain the regulation of agricultural markets in India. Discuss the scope of farmer-market linkages with a special mention of the e-National Agriculture Market in India.</p>
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10.	2. How can <b>Vizag-Chennai industrial corridor</b> in Andhra Pradesh contributing to the state's industrial development. Discuss? (daily test 49)	<b>Q 10 b</b> (b) Explain the development programme of Visakhapatnam Chennai Industrial Corridor Development Program (VICIDP). Write a short note on the socio-economic impact of the VICIDP.
11.	1. Explain the need for <b>Agricultural mechanization</b> and the challenges faced in adoption of agricultural mechanization along with the initiatives taken to promote it? (sectional test 46)	<b>Q 8 a</b> (a) Explain the scope and benefits of farm mechanization. Discuss the implementation of farm mechanization schemes in Andhra Pradesh with special reference to Community Hiring Centres (CHCs).
12.	3. Inclusive growth relies heavily on the participation of women. What are some of the initiatives introduced by state government of Andhra Pradesh to empower women? (sectional test 11)	<b>Q 6 b</b> Question derived in similar lines Explain the challenges faced by women entrepreneurs in India. Discuss the schemes and initiatives taken by the Indian Government with respect to facilitating women entrepreneurship in India.
13.	5. <b>Agricultural credit</b> is one of the prime factors for the hindrance of Agricultural sector, what are the issues in Agricultural credit and what can be done to address them? (sectional test 11)	<b>Q 7 a</b> (a) Discuss the types and sources of agricultural credit in India. Explain the initiatives taken by the Indian Government in order to improve access to agricultural credit.
14.	9. What are the key issues and challenges faced in achieving <b>sustainable agricultural development</b> Discuss? (full length test 4)	<b>Q 7 b</b> (b) What is meant by sustainable agriculture? Discuss the sustainable agriculture practices and systems in India. Provide suggestions to improve agricultural incomes from sustainable agriculture.
15.	4. How do fluctuations in global oil <b>prices impact inflation</b> and the current account deficit in India? And what measures can the Reserve Bank of India take <b>to control inflation</b> and address the current account deficit? (daily test 40)	<b>Q 13 a</b> (a) Explain the effects of prevailing low global growth and high global inflation on present Indian domestic growth and inflation. Discuss the methods to control inflation with a special mention of inflation targeting.
16.	1. What is public debt and what are the different forms of <b>public debt</b> in India? (daily test 41)	<b>Q 14 a</b> Question derived (a) Explain the reasons leading to higher Public Debt in India. Discuss the scope of public debt sustainability in India.

<p>17.</p>	<p>4. Discuss about various achievements of Fishery sector in Andhra Pradesh and also highlight various initiatives taken by state government to promote Fisheries? (sectional test 47)</p>	<p>Q 8 b</p> <p>OR</p> <p>(b) Explain the extent of marine fishery resources in Andhra Pradesh. Discuss the steps taken by the Andhra Pradesh Government in order to promote the welfare and development of fishermen in Andhra Pradesh.</p>
<p>18.</p>	<p>1. The development of the industrial sector relies heavily on the contribution of micro, small, and medium enterprises (MSMEs). List out the challenges that are impeding the performance of MSMEs and suggest potential solutions to address them? (daily test 48)</p>	<p>Q 10 a</p> <p>Question derived in similar lines</p> <p>(a) With respect to the Micro, Small and Medium Enterprises (MSMEs) in Andhra Pradesh, discuss the following :</p> <p>(i) Importance of MSMEs in Andhra Pradesh economy</p> <p>(ii) Scope and implementation of Dr. YSR Navodayam and ReSTART programmes in Andhra Pradesh.</p>
<p>19.</p>	<p>2. What is foreign institutional investment, and how does it impact the Indian economy? How does it differ from foreign direct investment, and what are the advantages and disadvantages of each type of investment for the country? (daily test 41)</p>	<p>Q 13 b</p> <p>Similar question</p> <p>(b) What are the factors that spur foreign investment in India? Explain the major features of India's Consolidated Foreign Direct Investment (FDI) Policy. Briefly discuss the present situation of the FDI equity inflows in India.</p>



## Paper 5 S &amp; T

	Form MTS	From APPSC mains 2023
1.	1. Discuss the multiple issues associated with <b>space debris</b> . Also, state the initiatives taken in recent times to tackle this menace. (daily test 33)	Q 3 a What is <b>space junk</b> ? Discuss the challenges posed by increased space junk and potential risks associated with it. What do you know about Project Netra?
2.	What initiatives has India taken to encourage <b>Private investment in space technology</b> . Explain (daily test 33)	Q 3 b Why is India's <b>space industry</b> looking for <b>private sector investments</b> even though ISRO is a successfully performing PSU
3.	2. <b>Anti-microbial resistance</b> is an impending health catastrophe and requires a multi-disciplinary approach and investment in R&D. Comment (daily test 38) & 6. In spite of various efforts and policies, Tuberculosis is still a big problem in India." Discuss various reasons for this. Give some solutions to prevent Tuberculosis (sectional test 9)	Q 8 a (a) Why is antibiotic resistance getting worse in India? Discuss the strategies and action plans in India to deal with this.
4.	2. Why has India opted for three stage nuclear power programme? Discuss various challenges associated with nuclear power development in the country. (daily test 34)	Q 4 a (a) Though circumstances are strongly insisting for India to overturn decades of 'No first use' nuclear doctrine, still India is committed to No first use of nuclear weapons — Comment.
5.	7. Biotechnology is often seen as a revolutionary intervention, but the applications of biotechnology have had mixed socio-economic implications. Examine. (sectional test 9)	Q 7 a (a) Biotechnology has unlocked a vast potential for improving human life, but the risks it poses are now a concern — Discuss throwing light on blessing and curse of Biotechnology.
6.	5. What are the objectives of National IPR policy and also mention the major Challenges one faces while getting IP rights in India? (sectional test 9)	Q 9 a (a) Why is the number of patents granted in India still a fraction compared to China and US, even though India's global position in innovations has been rising over the years?

7.	14.How can the enforcement of IPR laws and regulations be strengthened to safeguard the rights of innovators and creators in the field of Science and Technology. Discuss? (full length test 5)	<b>Q 9 b</b> (b) What are the tools required for the successful commercialization of Intellectual Property Rights in India ? Discuss the role of CIPAM in commercialization of Intellectual Property Rights.
8.	11.What are genetically modified organisms (GMOs) and write about the potential benefits and risks of using GMOs in agriculture and food production? (Full length test 5)	<b>Q 10 a</b> (a) Inefficient farming and poor distribution are reasons for the world's food shortage and the genetically modified crops are a bad answer to the wrong problem – Comment.
9.	8.What are India's nuclear policies at the international level and what is the country's stand on various international agreements and treaties related to nuclear energy? (full length test 5)	<b>Q 14 a</b> (a) What are the reasons behind the India's opposition to sign the Non-Proliferation of nuclear weapons (NPT) ? Discuss the impact of the civil nuclear agreement with the Nuclear Supplier Group (NSG) on nuclear power generation in India.
10.	4.How has ISRO's satellite technology impacted human lives particularly in fields like weather forecasting,Disaster management,Navigation and Telecommunications.Illustrate with examples? (full length test 5)	<b>Q 10 b</b> (b) Why is monitoring and weather forecasting crucial ? Discuss the role of ISRO in the weather prediction and capabilities in Disaster management. Add a note on Mission NISAR.
11.	1.Chat GPT has received a lot of attention in recent times. Technology experts are debating the potential applications and concerns associated with Generative AI (Artificial Intelligence). Discuss. (daily test 31) & 5.What constitutes a cyber threat and what are the challenges that come with it? And Explain what measures have governments taken to prevent cyber threats? (sectional test 7)	<b>Q 11 a</b> Question derived in same lines (a) Discuss how Artificial Intelligence manipulated digital media can impact privacy, democracy and national security of a country. Suggest solutions to tackle this infodemic.
12.	4. What are the challenges in reducing India's dependence on coal-fired power generation, and how can a transition to renewable energy sources be achieved without compromising development objectives that require coal mining? (daily test 35)	<b>Q 11 b</b> (b) What is the current scenario of renewable power generation in India ? Discuss the factors responsible for the growing focus and shift towards Renewable energy.

13.	2. Discuss the causes and effects of soil erosion in India, and methods to prevent soil erosion? (daily test 36)	Q 12 a Question derived What is coastal erosion? Discuss factors causing soil erosion. Why is erosion dominant in eastern coast than the western coast in India?
14.	4.Explain what is e-Governance and what are various types of e-Governance.Discuss the merits and issues associated with it? (daily test 32) And 2.How do information and communication technologies (ICTs) both present new challenges and offer new opportunities for developing economies? Specifically, how do ICTs play a critical role in fostering economic inclusion and driving social transformation in these context? (daily test 32)	Q 2 a Question derived (a) Digital platforms dramatically improve the quality and accountability of public service and facilitate citizen centric governance — Elaborate. Explain various Technical, Economic and Social bottlenecks in the implementation of e-governance programmes in India.
15.	2.Science and Technology have been central to the progress and development of a nation. In this context, explain about its role in education in India? (daily test 31)	Q 1 b Question derived in similar lines on expected areas – health, education (b) Technology plays a key role in transforming healthcare sector and in addressing India's healthcare challenges — Discuss.
16.	2.Explain how the government can ensure energy security while honoring its net zero commitments? (sectional test 8)	Q 6 a Question derived (a) What are various mitigation activities by the Government of India to lower CO <sub>2</sub> emission for trading of carbon credits in the international market under Paris Agreement?
17.	07.What are the main challenges that India faces in managing solid waste, and how do they intersect with the role of the informal sector in waste management? (sectional test 8)	Q 6 b (b) Explain various challenges associated with disposing of massive amounts of Municipal solid waste. Discuss action plan for municipal solid waste management in India for cities generating waste > 500 tonnes per day.
18.	1.Green hydrogen presents an opportunity for the economy to modernize without the need to 'carbonize'. Discuss the statement and suggest strategies for leveraging benefits of green hydrogen. (daily test 34)	Q 4 b Question derived (b) What is Green Energy ? Discuss about the Green Energy corridors and their need in India.



