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MGP 2024

Time Allowed : Three Hours

समय : तीन घंटे



Maximum Marks : 250

अधिकतम अंक : 250

GENERAL STUDIES / सामान्य अध्ययन

Name Of Candidate परीक्षार्थी का नाम	Prateek Joshi		
Roll No./अनुक्रमांक	1910084207	Medium/माध्यम	English <input checked="" type="checkbox"/> हिंदी <input type="checkbox"/>
Center Code/परीक्षा केंद्र	1900	Date/दिनांक	6/9/2024

*Center Code : For Online - 1900 / Delhi : Karol bagh - 1901, ORN - 1902, Mukharji Nagar - 1903 / Patna : Boring Rd. - 2001 / Hyderabad : Jawahar Nagar - 2101

INDEX TABLE / अनुक्रमणिका			INSTRUCTION / अनुदेश		
Q. No. प्र.सं.	Max. Marks अधिकतम अंक	Marks Obtained प्राप्तांक	1. Please do furnish Name, Email, Roll No and Mobile in the answer sheet. कृपया उत्तर-पुस्तिका में नाम, ईमेल, रोल नंबर और मोबाइल नंबर भरें।		
1			2. There are TWENTY questions printed in ENGLISH & HINDI, all questions are compulsory. उत्तर पुस्तिका में अंग्रेजी/हिंदी में बीस प्रश्न दिए गए हैं, सभी प्रश्न अनिवार्य हैं।		
2			3. The number of marks carried by a question/part is indicated against it. प्रत्येक प्रश्न/भाग के लिए निर्धारित अंक उसके सामने अंकित किए गए हैं।		
3			4. Answers must be written in the medium authorized in the admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided. उत्तर प्रवेश पत्र में अधिकृत माध्यम में लिखे जाने चाहिए, जो कि दिए गए स्थान में इस प्रश्न-सह-उत्तर (क्यूसीए) पुस्तिका के कवर पर स्पष्ट रूप से लिखा जाना चाहिए।		
4			5. Word limit in questions, if specified, should be adhered to. Any page or portion of the page left blank in the Question-Cum Answer Booklet must be clearly Struck off. प्रश्नों में शब्द सीमा, यदि निर्दिष्ट हो, का पालन किया जाए। प्रश्न-सह-उत्तर पुस्तिका में खाली छोड़े गये किसी भी पृष्ठ या पृष्ठ के भाग को स्पष्ट रूप से काट दें।		
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Total/कुल अंक	250		For Student Only / केवल परीक्षार्थी प्रयोग हेतु		
Examiner's Discretion/मूल्यांकन कर्ता का विवेक :			Start Time/प्रारंभ करने का समय : 8:00 pm	End Time/समाप्त करने का समय : 11:00 pm	
Total Marks/कुल अंक :			Mode Of Examination/ परीक्षा की विधि :	Online/ऑनलाइन <input checked="" type="checkbox"/> Offline/ऑफलाइन <input type="checkbox"/>	
*Examiner's Discretion is the marks awarded at the discretion of the examiner based on your overall impression, on the basis of (but not limited to) your handwriting, presentation, use of diagrams, flowcharts, facts and figures or absolutely anything that he/she liked in your copy. मूल्यांकन कर्ता का विवेक अंक, आपकी लिखावट, प्रस्तुति, आरेखों के उपयोग, फ्लोचार्ट, तथ्यों और आंकड़ों या समग्र रूप किसी अन्य विषय वस्तु, जो मूल्यांकन कर्ता को आपकी कॉपी में पसंद आयी के आधार पर (लेकिन इन्हीं तक सीमित नहीं) पर दिए गए अंक हैं।			For Office Use Only / केवल कार्यालय प्रयोग हेतु		
			ECN CODE/ ईसीएन कोड :	EG/ईजी : ① ② ③ ④ ⑤	Evaluation Date/ मूल्यांकन तिथि :

Note: Students are expected to incorporate suggestions from the feedback provided in the answers. Discussion classes for the tests are also available online in your portal to aid in your preparation. Further, students are requested to see the good copies of the tests and learn from them. You can also discuss your copy with a Mentor and discover ways and means to improve your answers, or if you have any issues with this test / copy. Ask specific questions, to get specific answers.

EXAMINER'S REMARKS

CRITERIA FOR THE FEEDBACK SECTION AT THE END OF EACH QUESTION

1. **AWIS = Answered What is Asked.** This means whether you have addressed the core demand of the question or not. Addressing the core demand of the question gets you an objectively fair score. It is examiner's perception if you have understood the question and if you know the answer in the first place. Creative answer writing, sometimes missing the core demand, may fetch very high or very low scores, and exposes your answer to the subjectivity of the examiner.
2. **CD & VA = Content Density & Value Addition.** Examiner will evaluate the quality and quantity of your content in the answer. In the same word limit and space limit have you (a) written what is asked (b) gone beyond what is asked (c) enriched answers through combination of (but not all!) suggestions, ideas, quotes, flowcharts, diagrams, facts and figures, data etc. This affects objective components of assessment.
3. **S & F = Structure & Flow** = Whether you have structured your answer properly or not. Whether the answer has been broken into parts and sub-parts and each part has been addressed appropriately or not. Whether the flow of the answer is maintained. Affects both subjective and objective components of assessment.
4. **P & R** = How your answer performs on the criteria of **presentation, ease of read, clarity and apparent effort** in writing the answer. This affects the subjective components of assessment.

Instructions: All questions are compulsory. The number of marks carried by a question/part is indicated against it. Quality of the answer is more important than the length of the answer.

निर्देश : सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न द्वारा धारित अंकों को उसके सामने इंगित किया गया है। उत्तर की गुणवत्ता उत्तर की लंबाई की तुलना में अधिक महत्वपूर्ण है।

Q.1) Achieving inclusive growth requires a multidimensional approach that goes beyond economic growth. Discuss in context of India. (10 marks, 150 words)

समावेशी संवृद्धि को प्राप्त करने के लिए बहुआयामी दृष्टिकोण की आवश्यकता होती है जो आर्थिक संवृद्धि से परे हो। भारत के संदर्भ में चर्चा कीजिए। (10 अंक, 150 शब्द)

Q.2) Examine the implications of the expansion of gig workforce on economic growth and employment scenario in the country. (10 marks, 150 words)

देश में आर्थिक विकास और रोजगार परिदृश्य पर गिग श्रमबल के विस्तार के निहितार्थों की परीक्षण कीजिए। (10 अंक, 150 शब्द)

Q.3) What is precision agriculture? How can precision agriculture help in optimizing crop production and resource management? (10 marks, 150 words)

परिशुद्ध/प्रिसिजन कृषि क्या है? परिशुद्ध कृषि फसल उत्पादन और संसाधन प्रबंधन को अनुकूलित करने में कैसे मदद कर सकती है? (10 अंक, 150 शब्द)

Q.4) While MSMEs are the backbone of the Indian economy, they encounter various hurdles in their operation and expansion. Discuss. Also, suggest steps to support the growth of the MSME sector. (10 marks, 150 words)

MSMEs भारतीय अर्थव्यवस्था की रीढ़ हैं, लेकिन उन्हें अपने संचालन और विस्तार में कई तरह की बाधाओं का सामना करना पड़ता है। चर्चा कीजिए। साथ ही, MSMEs क्षेत्र के विकास को समर्थन देने के लिए कदम सुझाएँ। (10 अंक, 150 शब्द)

Q.5) Explain the significance of Intellectual Property Rights (IPRs) in transforming India into a knowledge-based and innovation-driven economy. Also, mention various government initiatives aimed at strengthening the protection and enforcement of IPRs in India. (10 marks, 150 words)

भारत को ज्ञान-आधारित और नवाचार-संचालित अर्थव्यवस्था में बदलने में बौद्धिक संपदा अधिकारों (IPRs) के महत्व का वर्णन कीजिए। साथ ही, भारत में IPRs के संरक्षण और प्रवर्तन को मजबूत करने के उद्देश्य से विभिन्न सरकारी पहलों का उल्लेख कीजिए। (10 अंक, 150 शब्द)

Q.6) Gaganyaan mission is a landmark endeavour for India, marking significant advancements in space exploration and contributing to broader national objectives; however, overcoming the associated technical and safety challenges is crucial for its success. Analyse. (10 marks, 150 words)

गगनयान मिशन भारत के लिए एक ऐतिहासिक प्रयास है, जो अंतरिक्ष अन्वेषण में महत्वपूर्ण प्रगति को दर्शाता है और व्यापक राष्ट्रीय उद्देश्यों में योगदान देता है; हालाँकि, इससे जुड़ी तकनीकी और सुरक्षा चुनौतियों पर काबू पाना इसकी सफलता के लिए महत्वपूर्ण है। विश्लेषण कीजिये। (10 अंक, 150 शब्द)

Q.7) What are the challenges in the safe management of e-waste in India? How can collaboration among multiple stakeholders help in sustainable e-waste management? (10 marks, 150 words)

भारत में ई-अपशिष्ट के सुरक्षित प्रबंधन में क्या चुनौतियाँ हैं? विभिन्न हितधारकों के बीच सहयोग से धारणीय ई-अपशिष्ट प्रबंधन में किस तरह मदद मिल सकती है? (10 अंक, 150 शब्द)

Q.8) Define Environmental Impact Assessment (EIA) and mention its various stages. Also, highlight the significance of EIA in balancing developmental needs with environmental conservation in the country. (10 marks, 150 words)

पर्यावरण प्रभाव आकलन (EIA) को परिभाषित कीजिए और इसके विभिन्न चरणों का उल्लेख कीजिए। साथ ही, देश में विकासात्मक आवश्यकताओं और पर्यावरण संरक्षण के बीच संतुलन बनाने में EIA के महत्व पर प्रकाश डालें। (10 अंक, 150 शब्द)

Q.9) Integrated Theatre Commands shall bring jointness in operation, synergy of resources and enable armed forces in carrying out swift, effective, and decisive actions. Do you agree with this view? Justify your answer. (10 marks, 150 words)

एकीकृत थिएटर कमांड संचालन में संयुक्तता, संसाधनों के तालमेल और सशस्त्र बलों को त्वरित, प्रभावी और निर्णायक कार्रवाई करने में सक्षम बनाएगा। क्या आप इस दृष्टिकोण से सहमत हैं? अपने उत्तर का औचित्य परीक्षण कीजिए। (10 अंक, 150 शब्द)

Q.10) India's internal security dynamics is inextricably linked with the peace and stability in the neighborhood. Explain with special reference to instability on the eastern border. (10 marks, 150 words)

भारत की आंतरिक सुरक्षा गतिशीलता पड़ोस में शांति और स्थिरता से अभिन्न रूप से जुड़ी हुई है। पूर्वी सीमा पर अस्थिरता के विशेष संदर्भ में समझाइए। (10 अंक, 150 शब्द)

Q.11) The introduction of Goods and Services Tax (GST) was hailed as a transformative fiscal reform; however, the journey of GST has been a mixed bag of successes and challenges. Analyse. (15 marks, 250 words)

वस्तु एवं सेवा कर (GST) की शुरूआत को एक परिवर्तनकारी राजकोषीय सुधार के रूप में सराहा गया था; हालाँकि, GST की यात्रा सफलताओं और चुनौतियों का मिश्रित मिश्रण रही है। विश्लेषण कीजिए। (15 अंक, 250 शब्द)

Q.12) Discuss the potential of food processing sector in addressing the issues of low value addition, high post-harvest losses and disguised unemployment plaguing Indian agriculture. Also, explain why the sector has underperformed despite its significant potential. (15 marks, 250 words)

भारतीय कृषि में व्याप्त कम मूल्य संवर्धन, कटाई उपरांत उच्च हानि और प्रच्छन्न बेरोजगारी के मुद्दों को हल करने में खाद्य प्रसंस्करण क्षेत्र की क्षमता पर चर्चा कीजिए। साथ ही, यह भी वर्णन कीजिए कि अपनी महत्वपूर्ण क्षमता के बावजूद इस क्षेत्र ने खराब प्रदर्शन क्यों किया है। (15 अंक, 250 शब्द)

Q.13) Despite the government's ambitious targets, rooftop solar installations in India are hindered by multiple factors. Elaborate. How far do you think that PM Surya Ghar Yojana can incentivise the adoption of rooftop solar installations? (15 marks, 250 words)

सरकार के महत्वाकांक्षी लक्ष्यों के बावजूद, भारत में छतों पर सौर ऊर्जा लगाने में कई तरह की बाधाएँ आ रही हैं। विस्तार से वर्णन कीजिए। आपको क्या लगता है कि प्रधानमंत्री सूर्य घर योजना छतों पर सौर ऊर्जा लगाने को बढ़ावा देने में किस हद तक सहायक हो सकती है? (15 अंक, 250 शब्द)

Q.14) Agricultural marketing reforms are imperative for addressing market inefficiencies and boosting farm incomes. Analyse. (15 marks, 250 words)

कृषि विपणन सुधार बाज़ार की अक्षमताओं को दूर करने और कृषि आय को बढ़ाने के लिए अनिवार्य हैं। विश्लेषण कीजिए। (15 अंक, 250 शब्द)

Q.15) Discuss the contribution of livestock sector to the rural economy and the empowerment of women. Also, highlight main challenges faced by the livestock sector in the country and suggest strategies to overcome these challenges. (15 marks, 250 words)

ग्रामीण अर्थव्यवस्था और महिलाओं के सशक्तिकरण में पशुधन क्षेत्र के योगदान पर चर्चा कीजिए। साथ ही, देश में पशुधन क्षेत्र के सामने आने वाली मुख्य चुनौतियों पर प्रकाश डालें और इन चुनौतियों से निपटने के लिए रणनीति सुझाएँ। (15 अंक, 250 शब्द)

Q.16) Generative AI holds immense potential to transform various aspects of daily life, offering both benefits and challenges. Elaborate. What policy measures do you suggest to maximize its benefits and mitigate its risks? (15 marks, 250 words)

जनरेटिव AI में दैनिक जीवन के विभिन्न पहलुओं को बदलने की अपार क्षमता है, जो लाभ और चुनौतियाँ दोनों प्रदान करता है। विस्तार से वर्णन कीजिए। इसके लाभों को अधिकतम करने और इसके जोखिमों को कम करने के लिए आप कौन से नीतिगत उपाय सुझाते हैं? (15 अंक, 250 शब्द)

Q.17) Describe the major outcomes of the 28th session of the Conference of Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC). What were the major engagements of India in this conference? (15 marks, 250 words)

जलवायु परिवर्तन पर संयुक्त राष्ट्र फ्रेमवर्क कन्वेंशन (UNFCCC) के पक्षकारों के सम्मेलन (COP) के 28वें सत्र के प्रमुख परिणामों का वर्णन कीजिए। इस सम्मेलन में भारत की प्रमुख भागीदारी क्या थी? (15 अंक, 250 शब्द)

Q.18) Explain the causes and impacts of landslides. Also, discuss the various measures to mitigate their impact, with a special emphasis on National Disaster Management Authority (NDMA) guidelines. (15 marks, 250 words)

भूस्खलन के कारणों और प्रभावों का विवेचन कीजिए। साथ ही, राष्ट्रीय आपदा प्रबंधन प्राधिकरण (NDMA) के दिशा-निर्देशों पर विशेष जोर देते हुए, उनके प्रभाव को कम करने के विभिन्न उपायों पर चर्चा कीजिए। (15 अंक, 250 शब्द)

Q.19) Left-Wing Extremism (LWE) is showing a downward trend, but still affects many parts of the country. Highlighting the reasons for the continuance of LWE in certain pockets, suggest strategies to deal with this menace. (15 marks, 250 words)

वामपंथी उग्रवाद (LWE) में गिरावट का रुख देखने को मिल रहा है, लेकिन यह अभी भी देश के कई हिस्सों को प्रभावित कर रहा है। कुछ इलाकों में वामपंथी उग्रवाद (LWE) के जारी रहने के कारणों पर प्रकाश डालते हुए, इस खतरे से निपटने के लिए रणनीति सुझाएँ। (15 अंक, 250 शब्द)

Q.20) Analyse how the adoption of emerging and disruptive technologies for money laundering is adding new layers of complexity to an already intricate issue. Also, highlight the measures taken to tackle the problem of money laundering both at national and international levels. (15 marks, 250 words)

विश्लेषण कीजिए कि मनी लॉन्ड्रिंग के लिए उभरती और विघटनकारी तकनीकों को अपनाने से पहले से ही जटिल मुद्दे में जटिलता की नई परतें कैसे जुड़ रही हैं। साथ ही, राष्ट्रीय और अंतर्राष्ट्रीय दोनों स्तरों पर मनी लॉन्ड्रिंग की समस्या से निपटने के लिए उठाए गए कदमों पर प्रकाश डालें। (15 अंक, 250 शब्द)

(Please do not write anything except the question number in this space)

कृपया इस स्थान में प्रश्न संख्या को अतिरिक्त कुछ न लिखें।

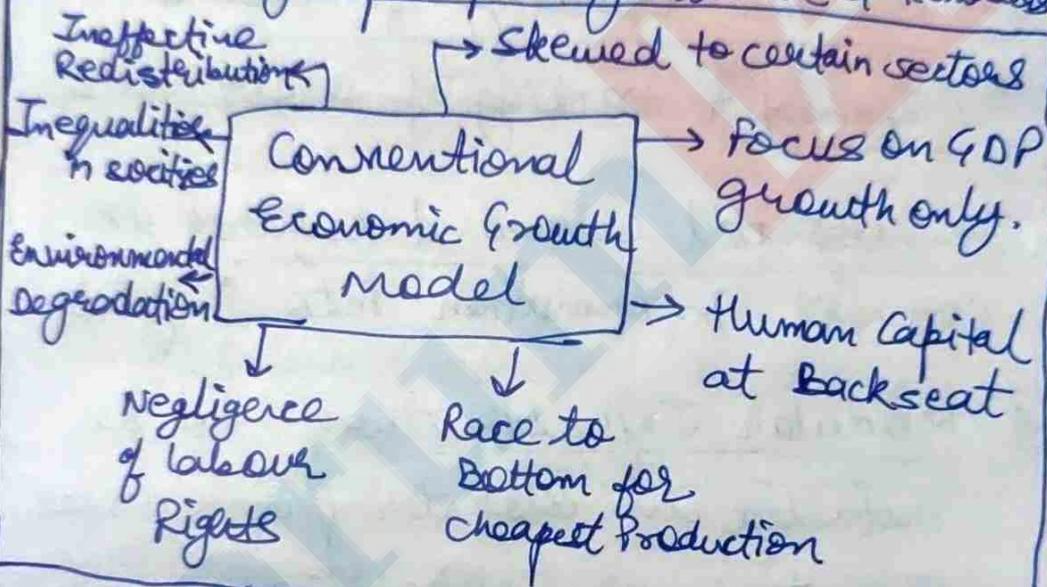
UPSC

Answer Questions in NOT MORE THAN the Word Limit specified for each in the Parenthesis.
Content of the Question is more important than length.
(Specimen Answer Booklet - For Practice Purpose Only)

उम्मीदवारों को इस हासिल में नहीं लिखना चाहिए।
Candidates must not write on this margin

Q1

According to OECD, Inclusive growth refers to growth that is distributed among different sectors of economy and brings prosperity to all stakeholders.



Inclusive Growth beyond Economic Growth

- ① Factoring in Environmental costs
Ex Green GDP
- ② Not just Economic poverty but Multidimensional poverty reduction
Ex India brought 24.8 crore people out of multidimensional poverty in last 10 years (NITI).

UPSC

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उम्मीदवारों को इस हाशिये में नहीं लिखना चाहिए।
Candidates must not write on this margin

Answer Questions in NOT MORE THAN the Word Limit specified for each in the Parenthesis.
Content of the Question is more important than length.
(Specimen Answer Booklet - For Practice Purpose Only)

③ Protection of Marginalized sections
Tribals, Women, labourers in market economy.

→ PM JANMAN scheme to ensure Tribal entrepreneurship

④ Ensure that growth is not Region-Centric and address developmental deficits.

→ PM DEVINE scheme for Northeast.

⑤ Data-based decision-making instead of historical underpinnings.

→ NITI Aayog's Local SDI Index.

Issues

- HDI rank - 132/193.
- Income Inequality (Top 10% own 76% of wealth) (Confam)
- Digital divide.

Inclusive Growth necessary to ensure 'sabka sath sabka Vikaas' in journey to being \$5 Trillion Economy

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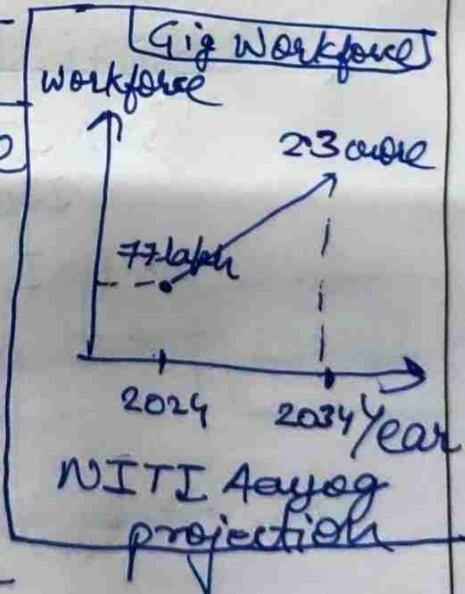
उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए
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Q2

Gig workforce refers to a employment type where labour is paid 'per gig' or 'per unit' of work achieved
 (NITI Aayog)

Implications of Expansion of Gig workforce

- ① Open up new sectors for employment
 → Food Delivery Business
- ② Unskilled labour workforce able to escape Poverty.
- ③ Reduce under-employment of agriculture sector.
- ④ Women as part of gigforce unlocking their productive role
 → Salons by Urbanclap.



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Issues with Gig Workforce expansion

① Social security net missing for labour

↳ No Gratuity & Pension.

② Employee treated as 'contractor' - no informal social network.

③ Work relegated to just Algorithmic Remuneration based on rating without creativity.

↳ Uber business.

④ Reserve Army of labour ready to replace labour → poor bargaining power.

Case Study: Mumbai Dabbawalas

flow informal system based of illiterate labour functions with least error rate. Possible due to strong value system of job model

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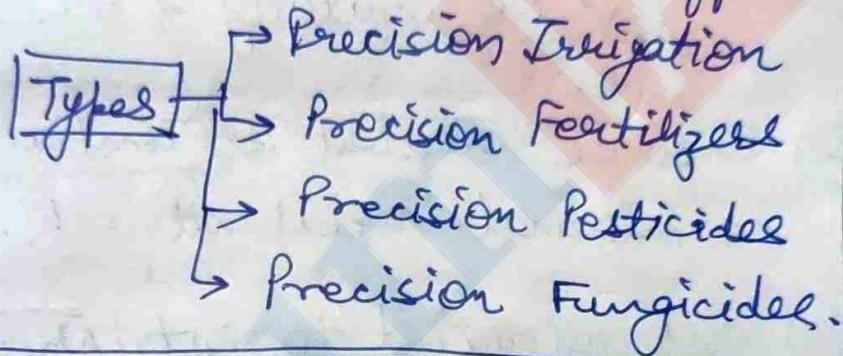
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Q3

Precision Agriculture refers to application of agriculture inputs based on selective & scientific needs rather than bulk application.



Precision Agriculture's role

- ① Effective resource utilization thus increased profit margins.
- ② Soil Productivity intact for long period through optimum usage.
- ③ Crop Produced has low Pesticide content → Health benefits



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④ Prevents Sanitary & Phytosanitary

Non-Tariff barriers, thus increased exports.

⑤ Environment degradation checked

through effective water-use

India ~~the~~ extracts 25% of global groundwater extracted

Achieving Precision Agriculture

① Fertilization methods to reduce leaching of fertilizers into

② AI & IoT based sensors for soil nutrient profiling

③ Nudging farmer adoption through incentives of market linkage.

In a country with 18% of population & only 2.4% of land resource, Precision Agriculture necessary to ensure future viability.

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Q4

MSMEs form 40% of exports, 30% of manufacturing GDP & true forms backbone of Indian Economy (NITI Aayog).

Challenges faced by MSMEs

- ① 'Dwarfism' to prevent regulatory oversight
- ② Poor Economics of Scale leading to less competitiveness.
- ③ land purchase still not streamlined (Need for land Banks)
- ④ Human Resource quality low leading to poor innovation
(India Skills Report - 750% graduates not employable)
- ⑤ Need for Creative Destruction

to iron-out inefficiencies.

(Schumpeterian Theory)

- ⑥ Chakravarty's Challenge of non-exits.
- ⑦ Credit Issue leading to informal high interest-rate loans.

Steps to Support Growth

- ① Supportive policy to enable expansion in 'sunrise' sectors.
 ✖ "Sugar Bowl" of Shyamli, Bagpat lacking in Food Processing
- ② Access to formal credit through NABARD & SIDBI.
- ③ Technology transfer to ensure global competitiveness.
- ④ Policy framework to support growth of 'network Products'
German Mittelstand Model to ensure potential utilization of MSMEs is need of hour.

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Q5

Intellectual Property Rights refer to ownership rights over an industrial idea (Patent/Trademark) or a creative ideas (copyright)

Significance of IPR

- ① Robust IPR regime fosters innovation & curbs 'reward-effort' mismatch
- ② Pool of knowledge generated through IPR act as future multiplying factor in growth.
- ③ Industrial patents can lead to growth of new sectors.
 Ex) Tesla's Battery Patents.
- ④ It protects startups from exploitation by MNCs

Government Initiatives

- ① National IPR Policy to ensure robust IPR regime.
- ② Particular Acts like Patents Act, Copyrights Act for specific type of IPR.
- ③ separate GI Act for protection of regional knowledge system.
- ④ NITI Aayog's Atal Innovation Mission to help companies in securing Government services regarding IPR.

Thus, Robust knowledge economy through IPRs allows companies to be 'Risk-Taking' & ensure invisible hand of market is coupled with hand of trust

Q6

Gaganyaam Mission is ^{the pioneering} human-flight mission of ISRO to put astronauts in low Earth orbit & bring them back safely.

Landmark Endeavour for India

- ① Next step in ISRO's capabilities after soft landing & on moon.
- ② Promote the case for India's own space station in future.
- ③ Achieving National Objective of developing robust space economy
(Current market size - \$8 Billion)
- ④ New & improved technology in form of cryogenic engines,

heat resistant materials & cooling systems.

Overcoming technical & Safety Challenges

① Complex connected system under heat stresses cummble

↳ Sunita Williams stuck in space.

② Loss of life, a huge concern.

↳ Kalpana Chawla experience

③ Providing contingency escape mechanism in case of failures.

④ Astronaut Training in Russia & France to gain experience.

Gaganyaan Mission next
father in shinning cap of ISRO
but adequate safety measures should
be kept in check.

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Q7

India is the 3rd largest producer of E-waste in world behind USA & China
(E-waste Monitor)

Challenges in E-waste Management

- ① 85% of E-waste is handled by unorganized sector (FICCI)
- ② Consists of ~~two~~ rare-earth elements ~~metals~~ which can cause environmental damage upon degradation
- ③ No Proper Segregation at source
- ④ Electronics Companies 'limiting the life' of gadgets to breed in consumerism. Leads to more e-waste generation.
- ⑤ Dumping in Oceans leading to

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severe marine pollution.

Collaboration among Stakeholders

- ① Ensure that Polluter Pays Principle is ensured in practice
- ② "Right to Repair" should be brought to centre-stage.
- ③ Introduction of biodegradable materials ~~in~~ as far as possible.
- ④ Process of returning back the product to seller at end of shelf life.

With increased technological penetration, E-waste bound to increase further. ~~Need~~ Coordinated efforts as only way out to ensure safe disposal.

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Q 8

Environment Impact Assessment refers to calculation of potential environmental impact of any anthropogenic process or project.

Stages of EIA

Screening ⇒ Project requirement & essential features

↓
Scoping ⇒ Extent of Impact & Term of Exposure

↓
Report Generation ⇒ Scientific Studies & Expert opinions

↓
Consultation ⇒ with the local Gram Sabha & other impacted stakeholders

↓
Decision-Making ⇒ Consensus based on Principle of Subsidiarity

↓
Monitoring & Publicity ⇒ Grievance Redressal & Rehabilitation



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EIA's significance in balancing developmental needs with env. conservation

- ① Time-series data-backed studies helps in understanding long-term impact
- ② Consultative mechanism ensures less ϕ future conflicts
- ③ Ensures Access & Benefit Sharing of developmental gains with indigenous communities.
- ④ Clear & Robust Mechanism, thus helping companies to escape red-tapism & corruption of bureaucracy.

EIA as a important step in achieving SDG Goal 9 of Sustainable Industry, Infrastructure & Innovation.

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Q9

Integrated Theatre Command refers to confluence of tri-service resources & personnel for issue specific problem solving.

Role of Integrated Theatre Commands

① Jointness in operation

Complementarities of all services coming together & ensuring effective response

② Synergy of Resources

Easy resource mobilization across service and also cross-service interactions leading to better resource availability

③ Enable armed force in swift, effective & decisive actions

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Focus on particular theatre
leads to expertise development.

However, there are challenges

- ① Service Parochialism - as no
service wants to give up
own privileges.
- ② Leadership tussle among the
three-services.

However, India's 2
Integrated Theatre Commands'
experience shows that this
can be effective strategy to
deal with 2.5 front-war that
India faces.

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Q10

As Rajiv Sikri argues that India ~~situation~~ situated around the "Arc of Instability & Turbulence", India's security dynamics becomes linked with its Neighbourhood.

Internal Security Dynamic linked with Peace & Stability in Neighbourhood

- ① Terrorism & ~~Arms~~ ~~For~~ Drug Smuggling in Golden Crescent (Pakistan, Iran, Afghanistan) leading to Radicalization in India.
- ② In eastern border, Tunta Coups in Myanmar leading to refugee influx in India & demography changes.
- ③ The current coup in Bangladesh

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leading to large-scale migrations
in West Bengal & Tripura.

④ Chinese Incursions into Arunachal Pradesh based on its Pincer strategy.

⑤ Porus Borders along Northeast leading to arms trafficking, drug cartels & money laundering
↳ These issues fuel issue like Kuki-Meitei conflict in Manipur.

In order to deal with ~~to~~ repercussions, initiatives like curbing of Free Movement Regime (FMR) with Myanmar, Installation of CIBMS system, ^{Heavy} BSF deployment of Bangladesh Border are steps in Right direction.

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Q11

The 101st Constitutional Amendment Act introduced GST as destination based indirect-tax regime throughout the country.

Hailed as Transformative Reform

① Multiple tax rates clubbed into 5 slabs - 0%, 5%, 12%, 18%, 28%.

② GSTN Network to curb tax leakage in tax collection.

③ Multiple taxes like Central Excise Duty, Sales Tax subsumed into one tax

④ Introduced as a means to curb Inverted Duty Structure

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Successes of GST's Journey

- ① Tax compliance ^{improved} ~~increased~~.
(1.5 Registered GST payers).
- ② Singal Single-window portal ~~to~~
regarding grievance redressal →
improved Ease of Doing Business.
- ③ Tax buoyancy improved with
GST collections > 17 lakh crore.

Associated Challenges

- ① Revenue Neutral Rate of 15%
yet not achieved.
- ② Regulatory burden of MSMEs
leading to Quarism.
- ③ Petroleum Products out of GST

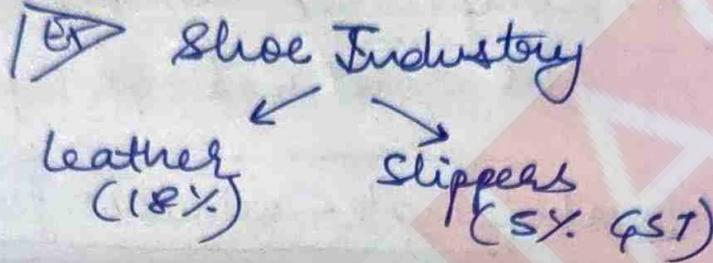
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④ Inverted Duty Structure still in place.



⑤ & states complaining about Centre's inadequate distribution of GST revenue (Federalism Issue)

Need for further techno-
logical ~~in~~ intervention to ensure
robustness & compliance of GST
system

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Q12 ~~FPI~~ Food Processing Industry refers to sector which processes raw products/agriculture produce into and convert them into value-added final & consumable products.

Potential of Food Processing Sector

Addression low-value addition

- ① High Perishability of Horticulture products due to tropical climate
- ② Wastage in FCI godowns due to open-ended procurements
- ③ Plinth & sheet warehousing leading to contamination.

High Post-Harvest Losses

- ① >90,000 crore post-harvest losses in India (NASSCOM Study)

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- ② Poor supply chain management as cold storage lacking.
- ③ High logistic cost (13-14% of GDP) leading to poor competitiveness

Disguised Employment in Agriculture

- ① 45% workforce employed in Agriculture but only 18% contribution in GDP
- ② Inefficient family labour instead of farm mechanization
(India farm mechanization ~45%, USA > 90% (ICAR))

Reason for Sector's Underperformance

- ① Low adoption Rates due to cultural orientation towards fresh fruit



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- ② Value-added food getting too expensive for masses to consume.
- ③ Sectors like - wine making, Bread making yet not adequately supported.
- ④ Poor quality of raw produce decreases nutritional profile.
- ⑤ Human Capital not skilled enough for the sector.

Food Processing Sector has huge potential to bring out Indian Agriculture of on ~~the~~ ^{the} Global Map. Adequate support through schemes like PLI will contribute in sector's multifaceted growth.

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Q13

Current rooftop power generation in India is 11GW while government aims to increase this to 50GW by 2025.

Reason for Hindrance

- ① High cost & low durability of current solar-cells
 - ↳ Need to adopt technology like Perovskite solar cells.
- ② Less incentives for public to switch to solar generation.
- ③ Urban Cities with flat-based residential systems puts out urban population from these efforts.

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- ④ Grid Integration not improper
in Tier 2 - Tier 3 cities, leading
to infrastructure issues.
- ⑤ PM KUSUM initiatives issue in
bringing attitudinal change.
- ⑥ PM Surya Ghar Yojana as
incentivizing
- ① Incentive-based on free
electricity upto 300 units
- ② Viability Gap Funding by government
in setting up rooftop solar.
- ③ Digital Platform to lodge
grievances against power
companies.

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④ Target of increasing adoption
to 1 crore households

↳ • nudging households towards
climate change awareness.

Issues with PM Surya Ghar Yojana

- ① Inconsistent supply & storage
issues yet not addressed.
- ② AT&C losses not and
leakages not fixed.
- ③ Capacity Building measures
lacking.

PM Surya Ghar Yojana right
step in utilizing India's Comparative
Advantage of being tropical country
with high solar energy.

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Q14

Agricultural marketing refers to mechanisms of connecting the 'farm to market' and ensuring farmers get adequately remunerated for their produce.

Current Systems of Agri Marketing

- APMCs as nodal agency.
- Farmers bound with 'regional mandis'
- ~~High cost of middlemen~~
- Agriculture as state subject

Agricultural Marketing Reforms Imperative

- ① Market inefficiency due to improper price discovery by APMCs
 - Ex) Farmers receives only 18-30% of products final ~~cost~~ price (ICAR).

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- ② High Middlemen haircuts in APMC. (2-18%)
- ③ MSP & POS shifted cropping pattern towards cereal centric agriculture
- ④ Poor technology transfer from private sector due to less adoption of contract farming
- ⑤ Post-Harvest losses > 90,000 crore due to inadequate FCI procurement (NASSCOM study)

Boosting farm incomes

- ① National marketplace in form of e-NAM ensures fair price for farmers.

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- (2) Export potential can be unlocked through market competition.
- (3) Cluster-based marketing in form of FPOs can help achieve improve bargaining power.
- (4) Supply chain robustness through warehouses, cold chain Infra can ~~of~~ reduce wastages.

Agricultural Market Reforms can help in achieving goal of "doubling farmers' Income" through adequate market linkages.

Q15

livestock sector contributes 4% to the national GDP and 25% to the Agricultural GDP.
(MoA)

Contribution of livestock sector

To rural Economy

- ① Alternate source of income for farmers.
- ② Act as insurance against crop failure in face of inadequate monsoon.
- ③ Milk Production helps in securing nutritional needs & improve human capital.
- ④ linkage with Ensure rural-urban economic networking

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through 'pure-quality' animal products.

For empowerment of women

- ① Shifts women from reproductive & care economy roles to productive roles.
- ② Women SHGs around livestock products increases their bargaining power.
- ③ Increases FLFRR thus frees women from clutches of patriarchy.

Challenges faced by livestock sector

- ① Sub-par breed quality
- ② Poor economies of scale leading to low competitiveness.

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③ Market langaa linkages broken
as supply-chain & infrastructure
inadequate.

④ No centralized pricing platform
for price discovery.

Strategies to overcome

① Need Academia-Farmer
linkages to ~~or~~ infuse scientific
temper.

② Cooperatives movement needs
to be strengthened further

③ Breed-Improvement through
Genetic Engineering.

Thus, ~~as~~ ~~to~~ while Agriculture
is backbone of rural economy,
livestock sector is its heartbeat

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Q16

Generative AI refers to advanced
NLP based Natural language
based Neural Network Models which
can take up user query inputs &
generate audio, video or text
content as per requirement.

Ex) Open AI's ChatGPT

Potential to transform daily life

~~Positives~~ Benefits

- ① Synchronized knowledge becomes easily accessible
- ② New artistic imagination can be unlocked through prompt engineering
- ③ Improve Government service delivery through vernacular

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grievance Redressal.

- ④ Aid Professionals like doctors, lawyers, CA with case-specific informations
- ⑤ Discover new laws of nature & ~~inf~~ augment scientific research.

Challenges

- ① Algorithmic Biases leading to new fault line conflicts.
- ② ~~②~~ ~~Ex~~ Racism in Google GEMINI's responses.
- ② Curb human inquisitiveness & motivation for discovery.
- ③ ~~Info~~ Incorrect Information in critical scenarios can lead to hampering

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④ Extreme manifestation in form of Frankenstein Monster leading to system takeover by AI.

Policy Measures

① Regulatory sandboxing model should be followed regarding AI innovations.

② Ensure Environmental Sustainability in processing of creating AI systems
 [Ex] ChatGPT uses 500ml of water for approx 15 queries
 (University of California Research)

③ Ensure that monopolisation does not lead to Digital Colonialism.

Case in Point: Bletchley Declaration
 Realizing the 'double-edged sword' nature early & ensuring adequate regulation

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Q17

COP 28 held in Dubai, provided forum for top-level coordination ~~regards~~ regarding decision-making in climate change issues.

Outcomes of COP28

- ① Idea of "Phase-down" of fossil fuels.
- ② Operationalization of Loss and Damage Fund to protect Small Island developing states (SIDS)
 - ↳ Tuvalu facing threats by sea-level rise.
- ③ Global Stocktake as part of Paris Agreement
- ④ Global Renewable Energy Pledge

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to triple global renewable energy to 12,000 TWh by 2030.

Major Engagements for India

- ① India sign as part of Global River Cities Alliance.
- ② launch of Green Credits Initiative for creating carbon sinks to through people's participation.
- ③ LEADIT 2.0 initiative by India & Sweden for Industry Transition.

backs Unaddressed Issues

- ① Focus on Coal but ~~not~~ not on Natural Gas.

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② In Loss & Damage fund,
developed countries not following
principles of Common but Differentiated
Responsibility (CBDR)

③ Kindleberger Trap - In race
of globalization, no country to
provide public goods at global level

④ Climate Denialism by developed
countries.

As Barack Obama said
"down" we are the first generation
to see impact of climate change &
last one to do something
about it". Hence COP as highest
decision making has very important
role to play.

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Q18 Landslides refer to mass movement of soil, debris, land-parcels down the slope due to external forces like ^{surface} water, ~~the~~ groundwater or tectonic impacts.

Ex Wayanad landslides
causing >500 fatalities.

Causes of landslides

- ① ~~Cloudburst~~ Cloudburst induced floods as major reason.
- ② Deforestation leading to loosening of top soil.
- ③ Construction activities leading to shaking up of mountain debris.

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④ Aquifer puncturing leading to denudation by groundwater

⑤ Tectonic impacts of Earthquakes, plate movements.

⑥ Mining activities & blasting can set in landslides.

Impact of landslides

① Loss of forests & biodiversity

② Damage to critical infrastructure like Power lines, Communication etc.

③ Loss of Human life

④ Washing away of top-soil leading to agricultural ruin

⑤ River Channels getting disturbed leading to ecological impacts

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Measures to Mitigate Impacts

- ① Coordinate with locale for rescue & relief operations.
- ② Using Civil Society to ensure effective timely action.
- ③ GIS-based mapping to plan out infrastructure development in sensitive areas (NDMA)
- ④ Afforestation measures to ~~ensure~~ improve soil-holding capacity.
- ⑤ Learning from International Best Practices like Japan's Infrastructural Resilience.

landslides can cause large damage to ecosystem. need ~~to~~ for synchronized efforts to limit its ~~has~~ negative impacts.

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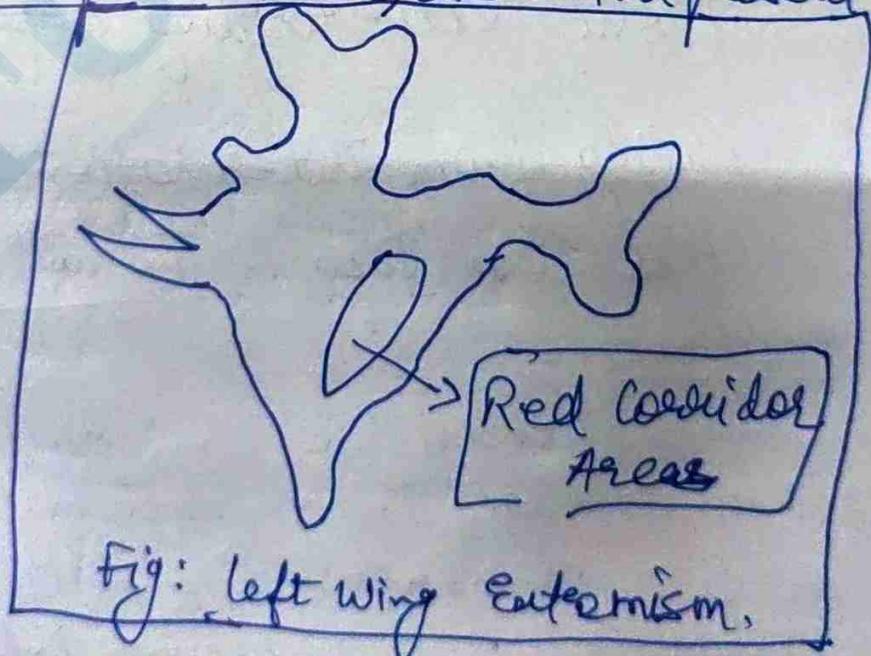
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Q19

From 465 Police Stations in 96 districts (2004) to 140 Police Stations in 27 districts (2023). ~~Left~~ reporting LWE crimes, Left-wing Extremism is showing downward trend.

Still many parts affected

① Red-Corridor areas, though shranked from its "Tirupati to Pashupati" idea, is still present



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Reason for Continuance

- ① Developmental deficit leading to discontent against state.
- ② Support from external state & non-state actors to hurt India's internal security.
- ③ Poor human human Capital leading to easy trap in extremist ideology.
- ④ ungoverned forest space as conducive for propagation
- ⑤ linkages with broader Armed Smuggling & Narcos Terrorism networks.

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Strategies to deal with merance

- ① Special Police Battalions like (COBRA, C60)
- ② Developmental schemes like ROSHINI for skill development
- ③ offering "Divine Branch" for surrender & reconciliation.
- ④ Hard Policy in form of Operation Greyhound by Andhra Pradesh.

Ministry of Home Affairs

SAMADHAN framework to deal with the issues.

(Smart leadership) S

(No access to finance) N

(Aggressive) A
Strategy

(Harnessing) H
Tech

A (Actionable Intelligence)

M (Motivation)

A (Action Plan for each theatre)

D (Dashboard based on KPI)



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Q20

~~Money laundering~~ with the shift
of warfare from Dynamite to
Metaverse & from AK-47 to Virtual
Digital Assets, the adoption of
technology adding complexity to
Money laundering Issues.

New layers of complexity

① Proceeds of crime stored
decentralized into cryptocurrency

② Illegal dark-net markets for
linking Money laundering &
Drug Trafficking.

③ Silk Road.

③ AI-based cryptography cracks
leading to identity thefts.

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④ Technology augmenting the 'anonymization' of criminals.

⑤ Manipulation of Stock Markets, shell companies, Fake Export Receivables as new forms of money laundering.

Measures taken to tackle the issue

India

① Prevention of Money Laundering Act, 2002 (PMLA) to specifically deal with Money laundering.

② FEMA Act, 1999 to check forex-based money laundering



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③ Benami Transaction Prohibition Act for prohibiting Hawala, Angadiya systems

④ Financial Intelligence Unit (FIU-IND) for technological support

Global Efforts

Financial Action Task Force as global money laundering watchdog
↳ Issues Grey & Black list

Thus, as ~~the~~ Supreme Court provides 'Money laundering is a heinous crime affecting the socio-economic fabric of nation'. Hence concerted efforts required to curb its dissemination.