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Time Allowed : Three Hours
समय : तीन घंटे

ForumIAS

Maximum Marks : 250
अधिकतम अंक : 250

GENERAL STUDIES / सामान्य अध्ययन

Name Of Candidate परीक्षार्थी का नाम	UJJWAL PRIYANK		
Roll No./अनुक्रमांक	1910128253	Medium/माध्यम	English <input checked="" type="checkbox"/> हिंदी <input type="checkbox"/>
Center Code/परीक्षा केंद्र	PATNA	Date/दिनांक	10.08.2025

*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 Marks/कुल अंक :			Mode Of Examination/ परीक्षा की विधि :	Online/ऑनलाइन <input type="checkbox"/>	Offline/ऑफलाइन <input checked="" 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 इन्हें तक सीमित नहीं) पर दिए गए अंक हैं।			For Office Use Only / केवल कार्यालय प्रयोग हेतु		
			ECN CODE/ ईसीएन कोड :	EG/ईजी :	Evaluation Date/ मूल्यांकन तिथि :
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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.



Q.1) Explain the significance of the recent changes made to the Periodic Labour Force Survey (PLFS) with respect to labour market data estimation in the country. (10 Marks, 150 Words)

देश में श्रम बाजार डेटा आकलन के संबंध में आवधिक श्रम बल सर्वेक्षण (PLFS) में किए गए हाल के परिवर्तनों के महत्व को समझाइए। (10 अंक, 150 शब्द)

The Periodic Labour Force Survey (PLFS) carries out market survey of the Indian economy to bring out key data on unemployment rate in India.

The recent change was made to give monthly data on the unemployment rate in India since April 2025.

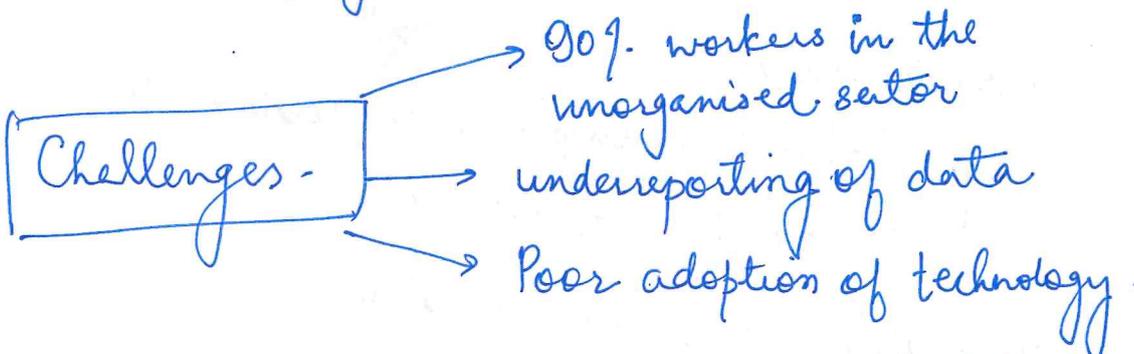
Significance of the changes.

1) It helps bring more frequent and current data.

↳ 5.1% unemployment in urban areas in April 2025.

2) It reduces the consideration period for analysing the period for which a person was employed.

- 3) Enhances the quality of governance through better contextual insights.
- 4) Ensures effective structural changes to reduce underemployment.
- 5) Timely implementation of schemes such as Employment-linked incentives
- 6) Shift from "usual status" which used to ask for previous 182 days.
 - ↳ This ensures better recall of employment duration



There is a need to push labour-oriented industries reform for better employment elasticity in economy.

Feedback

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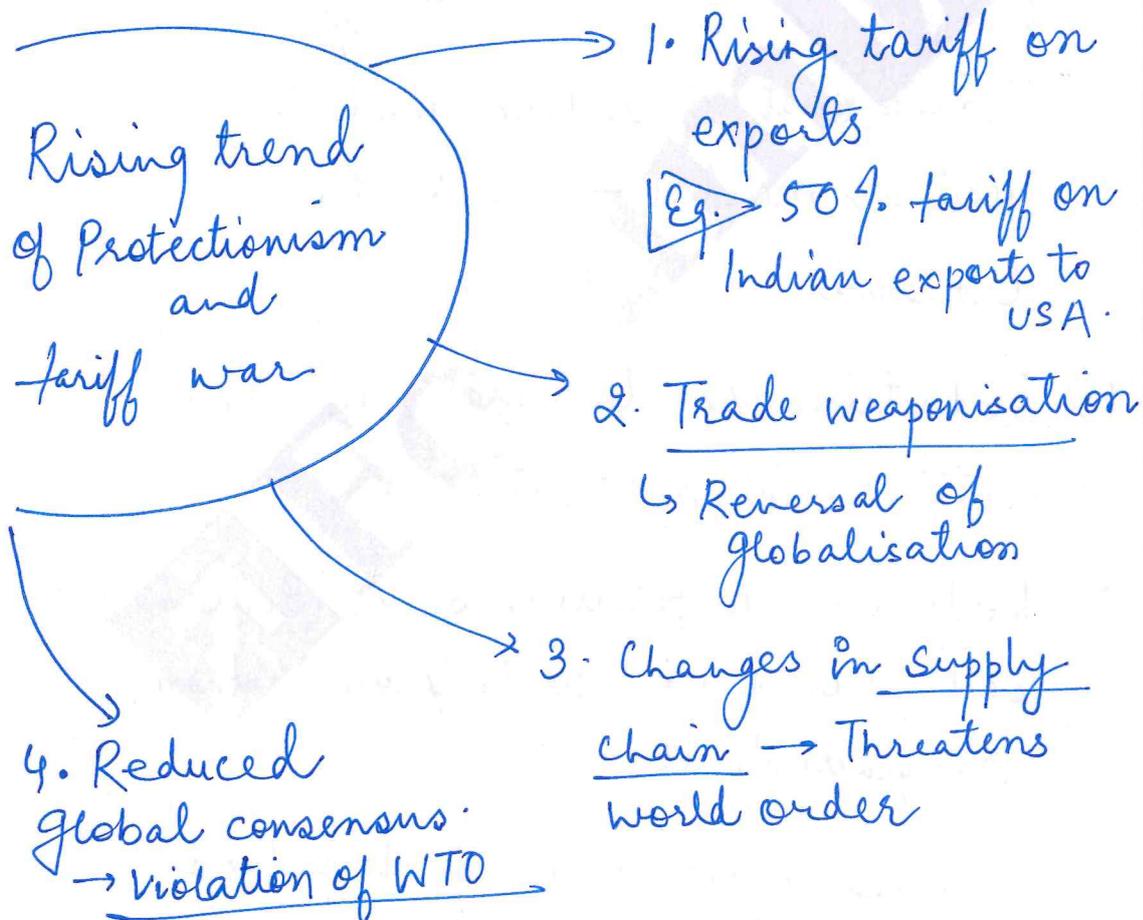
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TOTAL MARKS			



Q.2) Discuss the implications of the rising trend of protectionism and tariff wars in global trade for India's macroeconomic stability. (10 marks, 150 words)

वैश्विक व्यापार में संरक्षणवाद और टैरिफ युद्ध की बढ़ती प्रवृत्ति के भारत की व्यापक आर्थिक स्थिरता पर पड़ने वाले प्रभावों पर चर्चा कीजिए। (10 अंक, 150 शब्द)

The recent decision by President Trump to impose reciprocal tariffs and policy of "Make America Great Again" has made protectionism the new normal.



This will have wide implication on India's macroeconomic stability.

as it will disrupt supply chain.

- 1) Reduced growth forecast for FY 2025-26 due to reduction in exports (currently at ~6.5%).
- 2) Impacts investment from foreign firms in Indian economy.
- 3) Higher cost of Indian goods in western market → reduction in demand.
- 4) Reduction in the manufacturing sector such as textile.
- 5) Reduced competitiveness of Indian good vis-a-vis goods from Vietnam, Bangladesh etc.

India must leverage its policy of multialignment to diversify its supply chain for Viksit Bharat @ 2047.

Feedback

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TOTAL MARKS			



Q.3) "Genome-edited crops have the potential to strengthen food and nutritional security in the country." Examine. (10 Marks, 150 Words)

"जीनोम-संपादित फसलों में देश में खाद्य और पोषण सुरक्षा को सशक्त करने की क्षमता है।" परीक्षण कीजिए।
(10 अंक, 150 शब्द)

The recent surge in biotechnology in India has been due to widespread research on hybrid seeds, genome-edited crops etc.

It definitely has the potential to strengthen food and nutritional security in country in different ways.

1) Genome-edited crops can face and resist severe pest attacks.

[Eq.] use of Bt-cotton

2) Application in climate-resilient agriculture to tolerate extreme conditions

3) Resisting herbicides and insecticides
[Eq.] DMH-11 for mustard.

- 4) Enriching nutrients for solving hidden hunger and biofertilization
- 5) Enhanced productivity of crops and better nutritional value.

However there are certain limitation to the use of genome-edited crops →

- 1) Issues with gene-editing leading changes in the original quality.
- 2) Poor adoption by small farmers.
↳ 86% farmers are small in scale with less than 2 hectare land.
- 3) Reduced public expenditure on research innovation and development.

To realise the dream of \$300 billion biotechnology market by 2030, India must leverage the benefits of quality research.

Feedback

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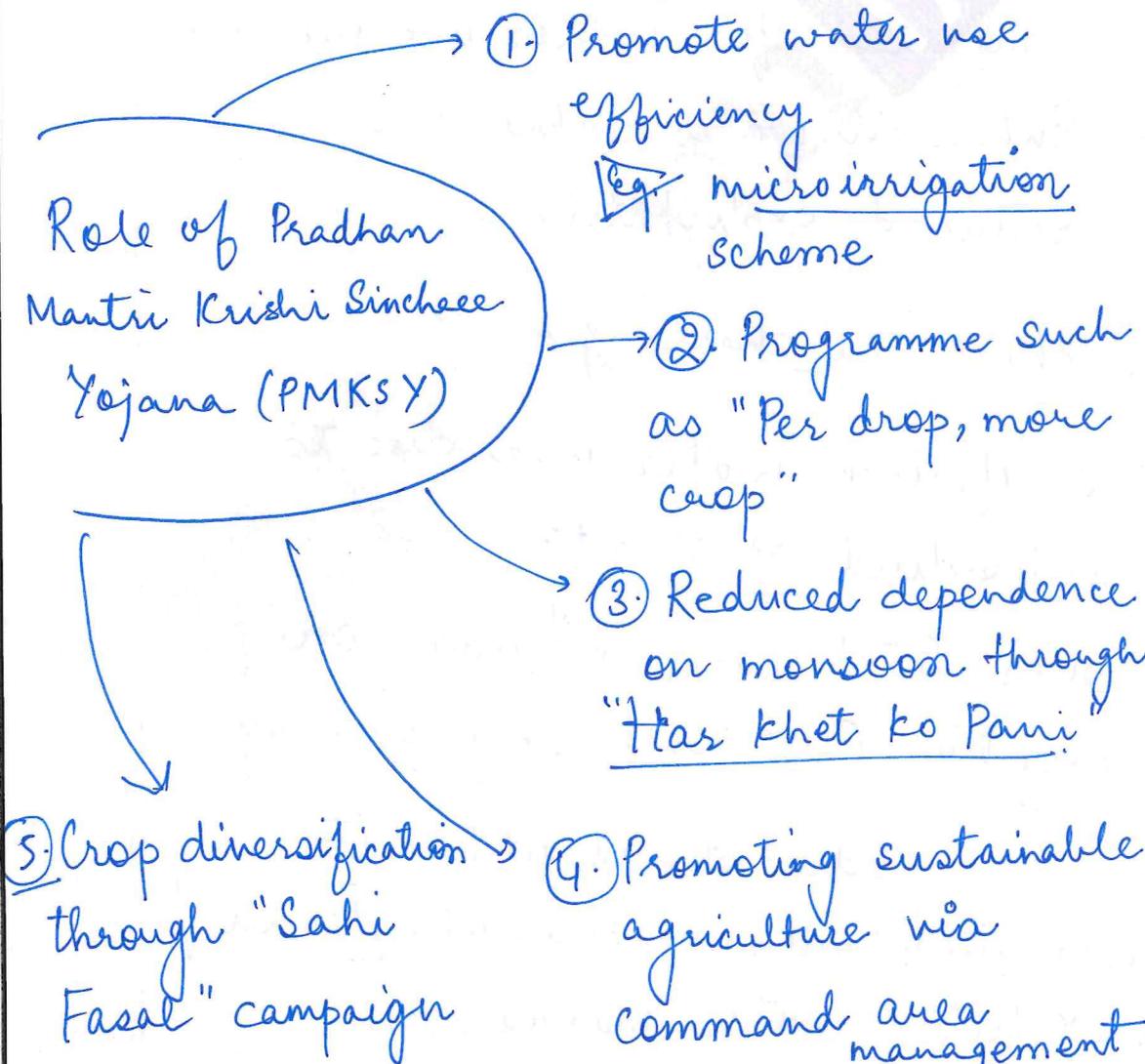
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TOTAL MARKS			



Q.4) Assess the role of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) in expanding irrigation coverage and improving on-farm water use efficiency. (10 Marks, 150 Words)

सिंचित क्षेत्र का विस्तार करने और खेत पर जल उपयोग दक्षता में सुधार करने में प्रधानमंत्री कृषि सिंचाई योजना (PMKSY) की भूमिका का आकलन करें। (10 अंक, 150 शब्द)

The widespread growth of water intensive crops such as rice, sugarcane etc in states like Rajasthan, Haryana has led to water use inefficiency in India



To ensure enhanced crop productivity and better farm income, PMKSY tends to diversify from underground water based pump irrigation to more effective solution :

- ① Drip irrigation and sprinkler irrigation for water use efficiency
- ② Enhanced water table via reduced exploitation

Yet there are challenges →

- ① Ineffective water use due to subsidised electricity
- ② over 85% water extraction for irrigation (UN Water Development report)

India should utilise its collaboration with countries like Israel for effective water management.

Feedback
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Please put tick marks in the above table. Here G is Good, A is Average and P is Poor.			
TOTAL MARKS			



Q.5) Starlink, a satellite internet service provider, has recently been granted a license to operate in India. What is satellite internet? How does it work? What are its advantages and limitations?

(10 Marks, 150 Words)

सैटेलाइट इंटरनेट सेवा प्रदाता, स्टारलिनक को हाल ही में भारत में परिचालन का लाइसेंस मिला है। सैटेलाइट इंटरनेट क्या है? यह कैसे काम करता है? इसके क्या लाभ और सीमाएँ हैं? (10 अंक, 150 शब्द)

Recently, Starlink which is US-based company owned by Elon Musk, was in news due to promotion of satellite internet.

Satellite internet utilises satellites placed in low earth orbit for transmitting internet across globe.

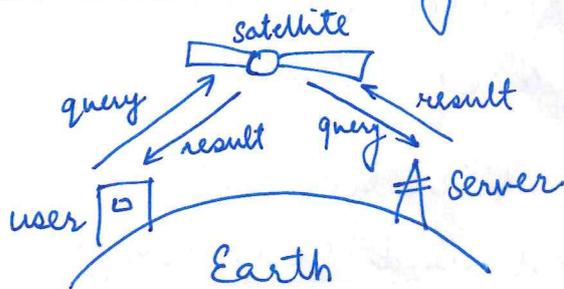
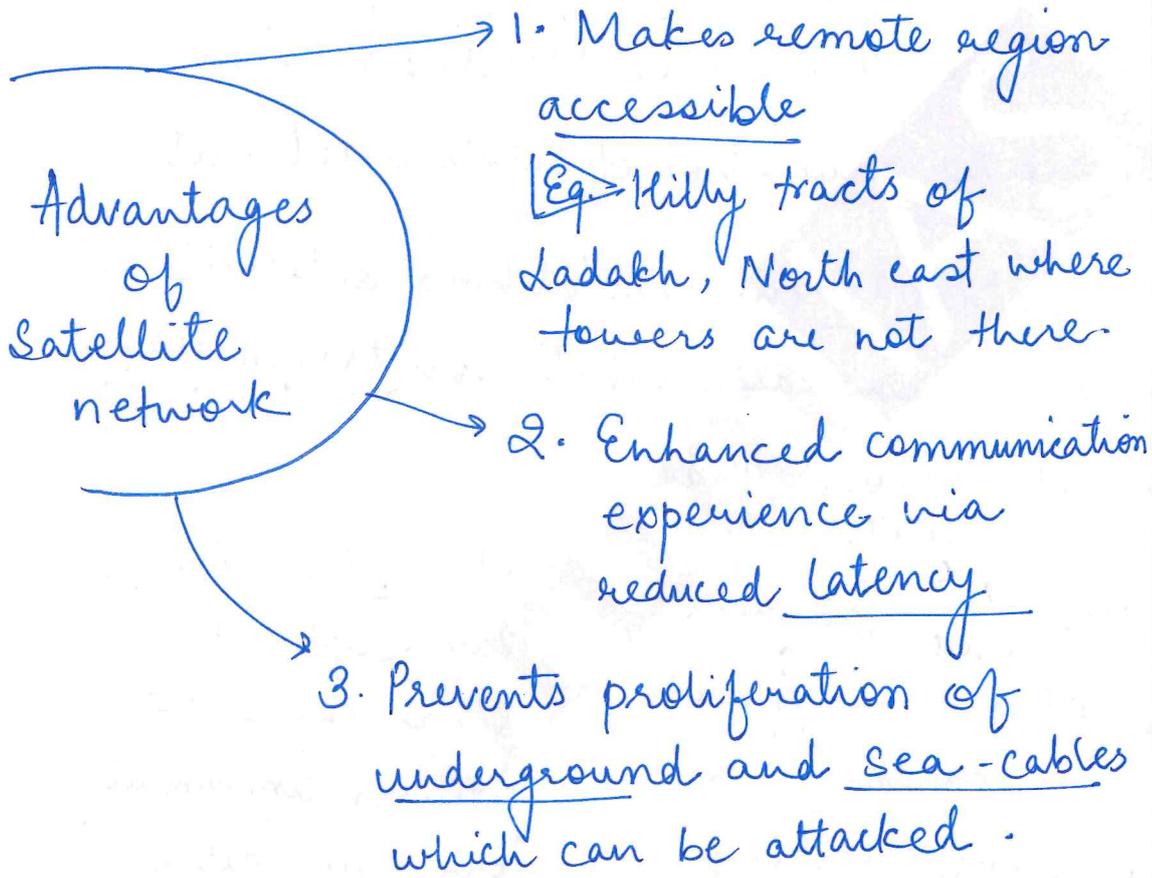


Fig: Simple working

It is different from optical fibre cable that utilises communication towers and cable for transmitting data.

1) It generally sends the command request from user to satellite which is furthered to server.

2) The server sends back data to the user via satellite communication



Yet there are challenges :

- 1) It is generally slower than ^{the} ~~the~~ optical fibre cable due to greater distance.
- 2) Interference due to space communication waves.

Satellite network can be integrated to NAVIC constellation for strategic autonomy.

Feedback

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TOTAL MARKS			



Q.6) What is a Geographical Indication (GI)? What are the legal frameworks governing it? How does it differ from a trademark? How can GI infringement be tackled? (10 Marks, 150 Words)

भौगोलिक संकेतक (GI) से क्या अभिप्राय है? इसे नियंत्रित करने वाले विधिक ढाँचे को स्पष्ट करें? यह ट्रेडमार्क से कैसे भिन्न है? GI उल्लंघन से कैसे निपटा जा सकता है? (10 अंक, 150 शब्द)

Geographical Indication is the mark granted to a product to indicate its geographical belonging.

↳ GI tag granted to Darjeeling tea.

- 1) It enhances the economy of the region to which the products belong.
- 2) Boost employment of the locality

It is governed through legal frameworks that grant GI tag to any product.

- 1) The registrar general of India under Ministry of Home Affairs is nodal agency
- 2) It examines the application and

then grants GI tag based on authenticity and credibility of data.

Difference from Trademark.

- 1) Trademark is a type of Intellectual property right granted to a particular company.
- 2) No other company can use the name and logo which is granted trademark. However, GI tag is used by all local producers and artisan in the given region. It can be produced in different region also, but then no GI tag is given to it.

Tackling GI infringement

- 1. Solving conflicting issue
 (eg) West Bengal and Odisha on Rasogulla
- 2. Use of technology such as Barcode for identification

GI tags ensure greater value to local goods and art forms.

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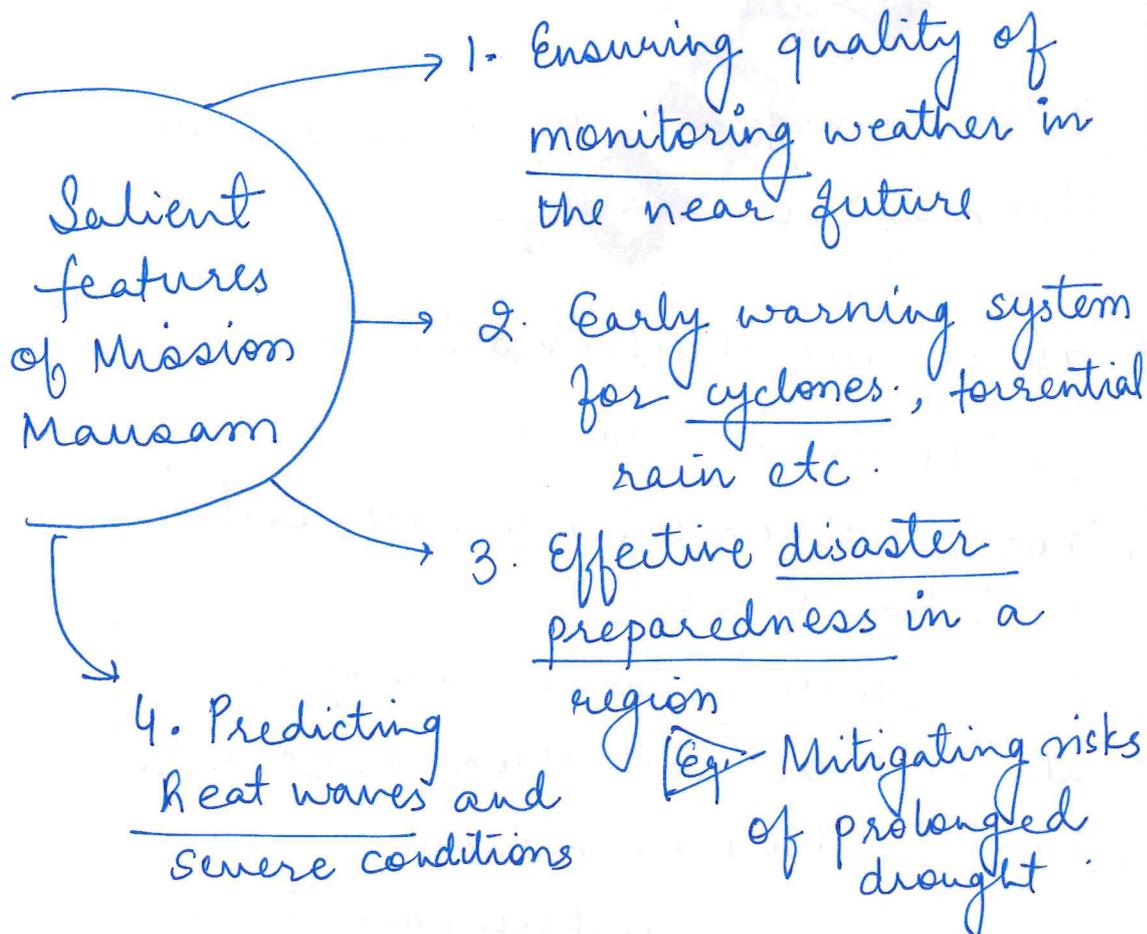


Q.7) What are the salient features of Mission Mausam launched by the Government of India? Why is such a mission needed? What are the likely challenges in its effective implementation?

(10 marks, 150 words)

भारत सरकार द्वारा शुरू किए गए मिशन मौसम की मुख्य विशेषताएँ क्या हैं? ऐसे मिशन की आवश्यकता क्यों है? इसके प्रभावी कार्यान्वयन में संभावित चुनौतियों का वर्णन करें? (10 अंक, 150 शब्द)

Recently, the Indian Meteorological Department (IMD) launched Mission Mausam for enhanced quality of weather prediction and management in India.



Such initiatives are needed in a

Country to ensure better governance -

- 1) Enhanced decision making by the government
- 2) "Whole of government" approach for disaster resilience.
- 3) Research & development in country for self-reliance -
- 4) Better management of livestock and planning for near future.

Yet, there are challenges in its effective implementation :

- 1) Poor research infrastructure such as laboratory etc.
- 2) Low researcher base → Only 260 per lakh in India, while China has 1602 per lakh
- 3) Poor funding mechanism

The evolving anthropogenic threats make it important to monitor climate change.

Feedback

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TOTAL MARKS			



Q.8) Highlight the key provisions of the Disaster Management (Amendment) Act, 2025. How would the amendment help strengthen the disaster management framework in the country?

(10 Marks, 150 Words)

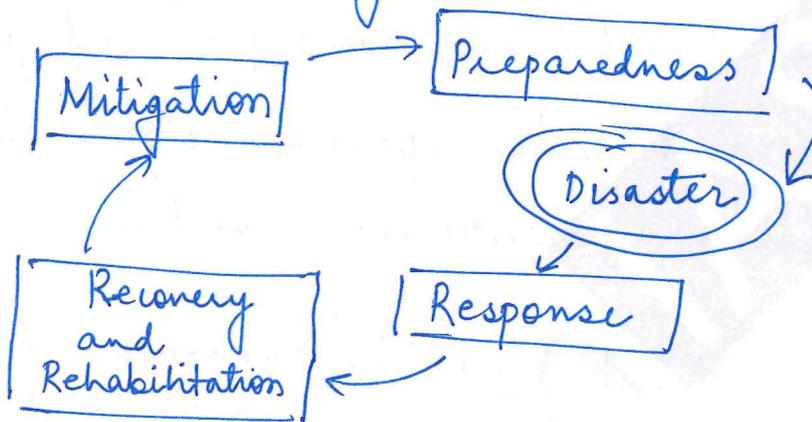
आपदा प्रबंधन (संशोधन) अधिनियम, 2025 के प्रमुख प्रावधानों पर प्रकाश डालिए। यह संशोधन देश में आपदा प्रबंधन ढाँचे को सुदृढ़ करने में किस प्रकार सहायक होगा? (10 अंक, 150 शब्द)

Recently, the Disaster Management (Amendment) Act 2025 was passed for providing a holistic approach of disaster preparedness and response in India.

Key Provision of Disaster Management Act 2025

- 1) Mitigation of disaster :
Provide resilient infrastructure.
- 2) Providing quick response for recovery through NDRF, SDRF etc.
- 3) Strengthening National Disaster Management Authority (NDMA)
- 4) Providing simplification to approach for rehabilitation
- 5) Ensuring funds and functionaries

For evolving threat of disasters .
It contemplates to strengthen the disaster framework of country :



- 1) Building collaboration for "whole of Society" approach.
- 2) Effective management via quick response at ground level.
- 3) Ensuring early warning system
- 4) Protecting the interest of marginalised community.

It is rightly said that "disaster anywhere impacts people everywhere". Thus the act aims to streamline efforts for planning.

Feedback

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TOTAL MARKS			



Q.9) 'Operation Sindoor' signals a strategic evolution in India's approach to cross-border terrorism. Analyze. (10 Marks, 150 Words)

'ऑपरेशन सिंदूर' सीमा पार आतंकवाद के प्रति भारत के दृष्टिकोण में एक रणनीतिक बदलाव का संकेत देता है। विश्लेषण करें। (10 अंक, 150 शब्द)

The "Operation Sindoor" that was conducted against the terrorist outfits in Pakistan who had role in Pahalgam terror attack in April 2025.

It marks a evolution in India's approach to combat terrorism :

- 1) India plan to provide a retaliation, thus demolishing the attack bases in Bahawalpur in Pakistan.
- 2) India provided a non-escalatory approach without damaging any civilian base in Pakistan.
- 3) Modi ji has provided for a doctrine that makes India resilient

to any nuclear blackmail

4) No differentiation between a terrorist and a terror sponsor.

5) Involvement of women officers such as Shafia Qureshi and Vyomika Singh for highlighting changing nature of combat.

6) India is no more the nation that will remain silent to violent attacks
→ Rather, India's involving with the world through global outreach.

"Operation Sindoor" is not just a military operation, rather a strategic approach of India for precision striking and non-escalatory action against terrorism.

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TOTAL MARKS			



Q.10) 'Cyberspace has emerged as a distinct domain of warfare, posing serious threats to national security.' Discuss this statement and suggest counter-measures. (10 Marks, 150 Words)

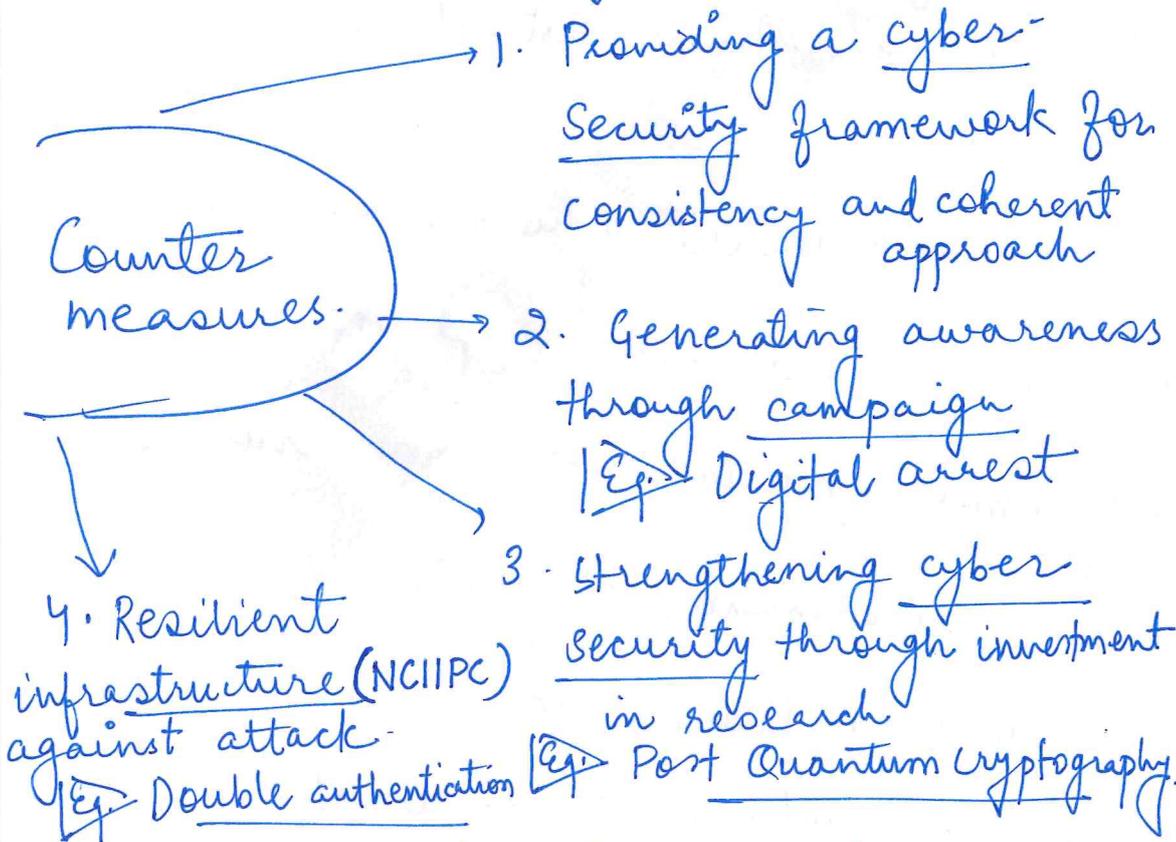
'साइबरस्पेस युद्ध के एक विशिष्ट क्षेत्र के रूप में उभरा है, जो राष्ट्रीय सुरक्षा के लिए गंभीर खतरा पैदा कर रहा है।' इस कथन पर चर्चा करें और सुरक्षात्मक उपाय सुझाएँ। (10 अंक, 150 शब्द)

Cyberspace has expanded in the recent time due to evolving digital economy and more participation of public on cyber technology.

It has emerged as a distinct domain of warfare

- 1) Grey zone warfare which is between wartime and relative peace.
- 2) Asymmetric warfare for cyberterrorism and radicalisation of youth.
- 3) Threat to national security as Shri Anil Chauhan talked about 2½ front war in India.

- 4) Cyberfrauds on rise : close to ₹ 7000 crores lost between ~~the~~ January to June 2025 due to cyber scams.
- 5) Threat to privacy due to cyberespionage and ransomware attack.
- 6) Evolving cyber security threat through smishing, Quishing (based on QR code) etc.



The proliferation of dark web can have negative consequences. Thus, India must strengthen its cyber space through technology.

Feedback

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Q.11) What are the key objectives of the Insolvency and Bankruptcy Code (IBC), 2016 ? To what extent has it been successful in achieving them? (15 Marks, 250 Words)

दिवाला और शोधन अक्षमता संहिता (IBC), 2016 के प्रमुख उद्देश्य क्या हैं? यह उन्हें प्राप्त करने में किस हद तक सफल रहा है? (15 अंक, 250 शब्द)

Insolvency and Bankruptcy Code (IBC) 2016 aimed at providing a streamlined approach to deal with non-performing assets in the economy

Key objectives.

- 1) Ensuring effective management of NPA accounts for better regaining of capital.
- 2) Differentiate between "wilful default" and NPA due to threats to the functioning of capital.
- 3) Ensure "Asset Reconstruction Company" for letting the bank focus on

its lending and administrative functions.
↳ Ensure a healthy balance sheet.

4) Quicker and timely resolution of NPAs help in freeing capital for further investment.

5) Earlier there were various schemes which led to ambiguity such as SARFAESI Act 2002.

↳ IBC 2016 rationalised and simplified the procedure

6) Harnessing digital technology for the process of asset reconstruction

Potential success of IBC 2016

1) Reduction in Net NPA and Gross NPA in the economy.

↳ Gross NPA was close to 2% in FY 2024-25.

- 2) Effective management through National Asset Reconstruction Company Ltd. (NARCL)
- 3) Provided a simple mechanism, thus positive impact on bank's health.
- 4) Ensure quick recovery of capital.

Yet there are limitations to IBC 2016.

- 1) There are still delays in timely recovery of asset
- 2) No proper trained staff or separate cadre of officials for ARC.
- 3) Lack infrastructure such as office, computer desks etc.
- 4) Issues of collusive corruption and red-tapism

Insolvency and Bankruptcy Code must be implemented in letters and spirit for healthy economy.

Feedback

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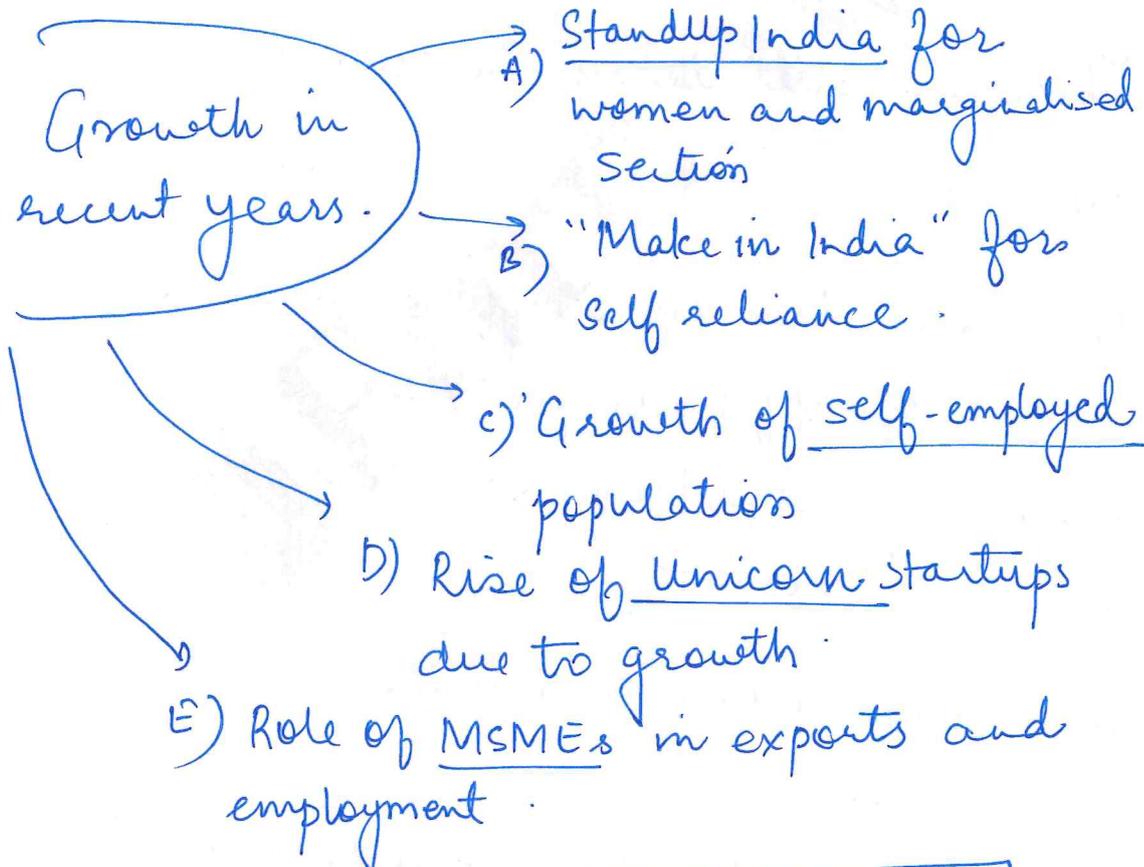
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TOTAL MARKS			



Q.12) Despite phenomenal growth in recent years, India's startup ecosystem lags in innovation across strategic sectors. Identify the factors responsible for this inadequate focus on deep-tech and suggest strategies to bridge this gap. (15 Marks, 250 Words)

हाल के वर्षों में अभूतपूर्व वृद्धि के बावजूद, भारत का स्टार्टअप पारितंत्र रणनीतिक क्षेत्रों में नवाचार के मामले में पिछड़ रहा है। डीप-टेक पर इस अपर्याप्त ध्यान के लिए उत्तरदायी कारकों की पहचान करें और इस अंतर को पाटने के लिए रणनीतियाँ सुझाएँ। (15 अंक, 250 शब्द)

India's startup ecosystem saw a rise in entrepreneurial spirit driven by schemes like Startup India and Standup India in recent years.



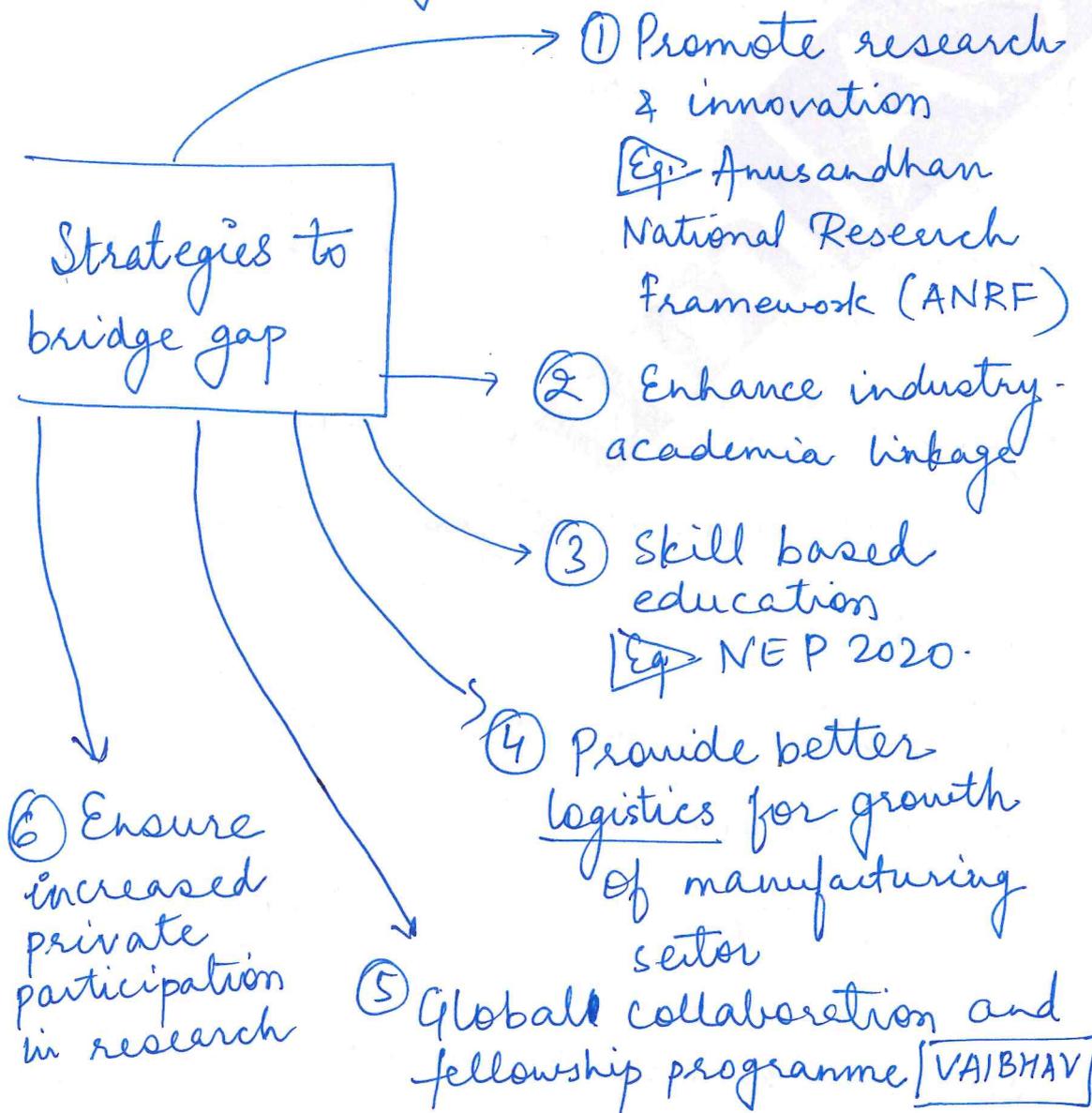
Yet, the innovation and research

part has lagged across strategic sectors due to following factors :

- 1) Low researcher base in India which is just 260 per lakh population, while China has 1602 researcher per lakh.
- 2) Reduced public expenditure on research which is about $\sim 0.6\%$ of GDP, as compared to USA which has $\sim 2\%$ of GDP.
- 3) Infrastructure bottlenecks - \rightarrow Low quality of researcher facility and laboratory.
- 4) Proliferation of service startups like OLA, Zomato, etc
- 5) Poor industry-academia linkages.
- 6) Issues with ease of doing business and "small by choice" firms due

to **LIC** burden → licensing
 → inspection
 → compliance.

7) Lack of **skilled labour** in India →
 Only about 50% engineers are employable



Thus, there is a need for holistic development on part of government and society.

Feedback

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TOTAL MARKS			



Q.13) What is floriculture? How is it helpful in enhancing farm income and boosting agri-exports?
(15 Marks, 250 Words)

फूलों की खेती क्या है? यह कृषि आय बढ़ाने और कृषि निर्यात को बढ़ावा देने में कैसे सहायक है? (15 अंक, 250 शब्द)

Floriculture is a type of horticulture which enhances growth of flowering plants, decorative and ornamental plants for economic purpose.

[Eq.] There is a growth of marigold and rose cultivation due to increased demand in wedding.

Floriculture enhances the economic growth and agricultural sector.

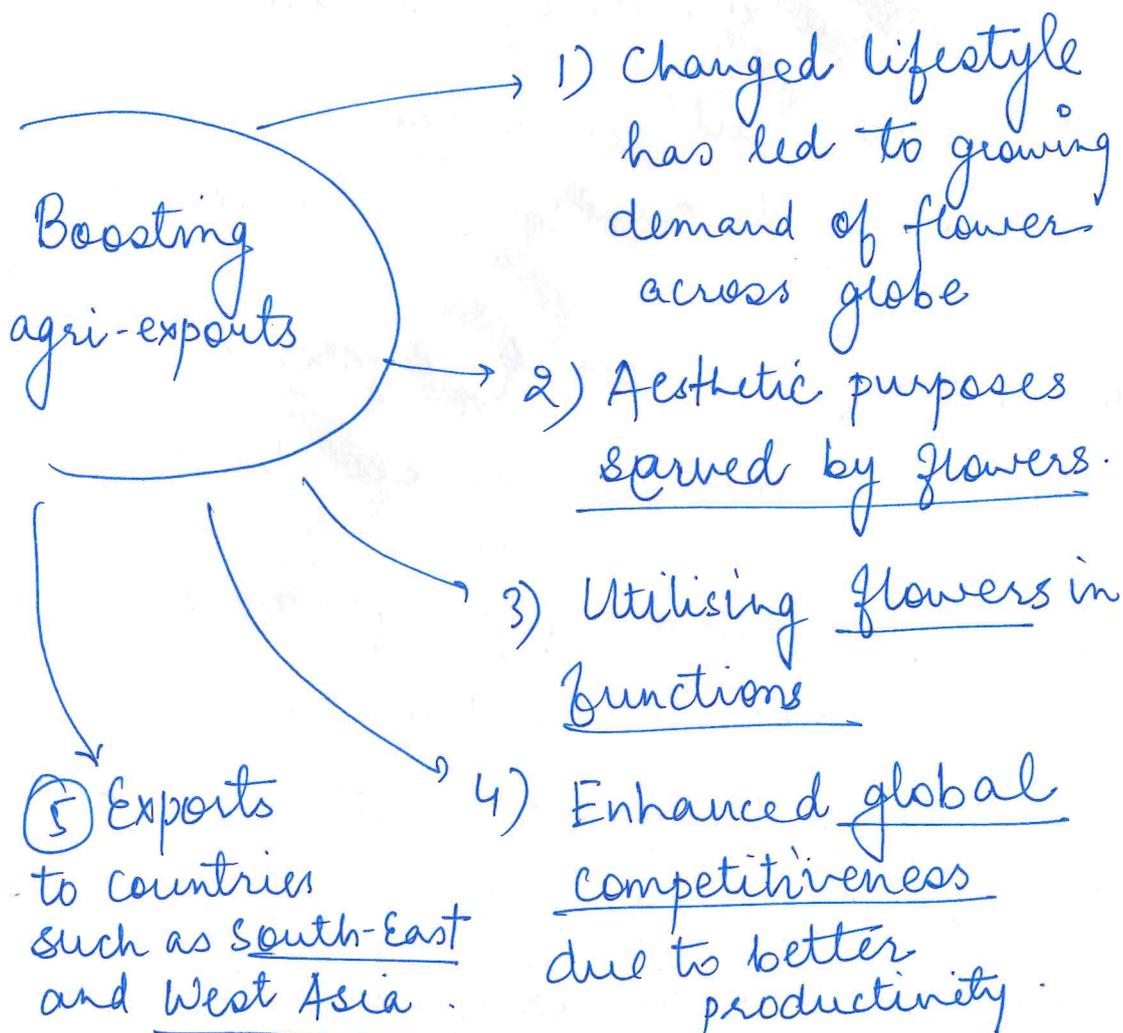
- ① Better remuneration for farmers due to increase in demand.
- ② The same flowering plant can be harvested again for getting flowers → reduction of sowing,

growing, ploughing frequently.

③ Increased productivity due to government support

↳ National Horticulture mission

④ Boost the economy by increasing supply to meet demand.



Floriculture is not without challenges due to following factors :

- 1) Small farmers with fragmented land
↳ Reduces scalability.
- 2) High initial cost of plantation.
- 3) Demand for insecticides and herbicides to protect the plants.

Way forward

- 1) Providing diversification of crop through government support.
- 2) Promoting logistics such as cold-chain infrastructure for preservation.
- 3) Skilling farmers for scientific management of crops.

Floriculture can be instrumental in enhancing growth, employment and doubling farmer's income.

Feedback

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Q.14) "Women play a crucial role in Indian agriculture, yet continue to face systemic exclusion." Discuss with reference to land ownership, access to credit, and agri-extension services. What initiatives has the government taken in this regard? (15 Marks, 250 Words)

"महिलाएँ भारतीय कृषि में महत्वपूर्ण भूमिका निभाती हैं, फिर भी उन्हें व्यवस्थागत बहिष्कार का सामना करना पड़ता है।" भूमि स्वामित्व, ऋण तक पहुँच और कृषि-विस्तार सेवाओं के संदर्भ में चर्चा कीजिए। सरकार ने इस संबंध में क्या पहल की है? (15 अंक, 250 शब्द)

The migration of men from rural India for better opportunities to cities or farm in Punjab, Haryana has led to better role of females in agriculture in rural India, particularly in East India.

The women provides labour to agriculture, however face systemic exclusion in India :

1) Land ownership

A. The land titles are mostly held in the name of male member.

B. The patriarchal norms and son-meta preference leads to exclusion of female.

2) Access to credit

- A) Women agriculturist are often marginalised with lower literacy.
- B) Lack of awareness and poor documentation leads to exclusion from formal credit sector.

3) Agri-extension service

- A) Poor literacy makes women vulnerable to remain marginalised.
- B) Low level of skills leads to poor adoption of evolving techniques.
- C) Manual labour : Hesitancy to harness technology.

The government has taken initiatives for improving the status of women.

farmers in India :

- 1) Promoting digital identification of land to prevent exploitation
(eg) SVAMITVA scheme.
- 2) Ensuring "land" as a capital via making them available for credit through DILRMP
- 3) Role of Self Help Groups :
About 12 million in India, with 88% being women groups.
- 4) Stand Up India scheme → To promote women as entrepreneur in various sectors including food processing
- 5) PM Drone Didi for precision agriculture

India must include women in meaningful ways for "Sabka Saath, Sabka Vikas"

Feedback
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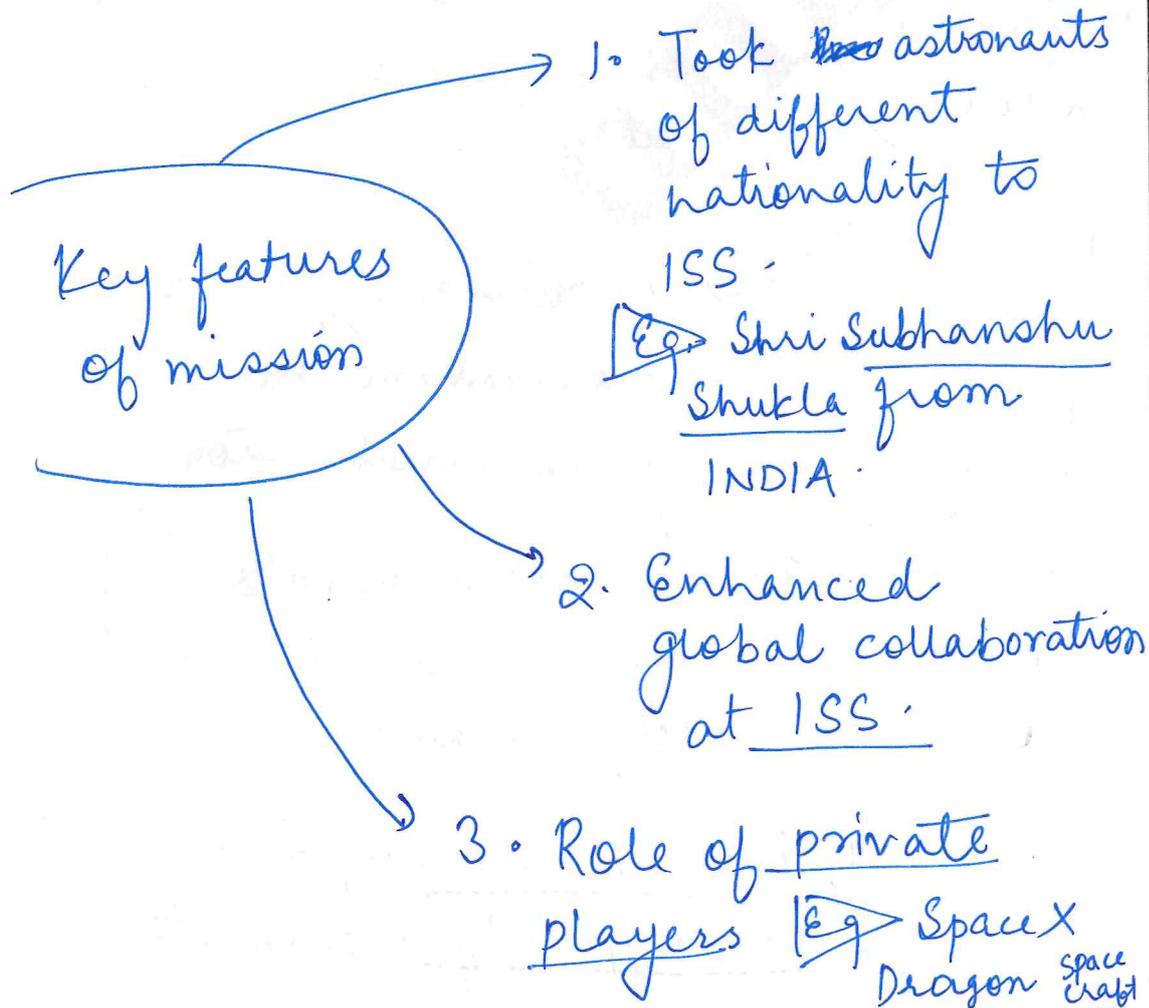
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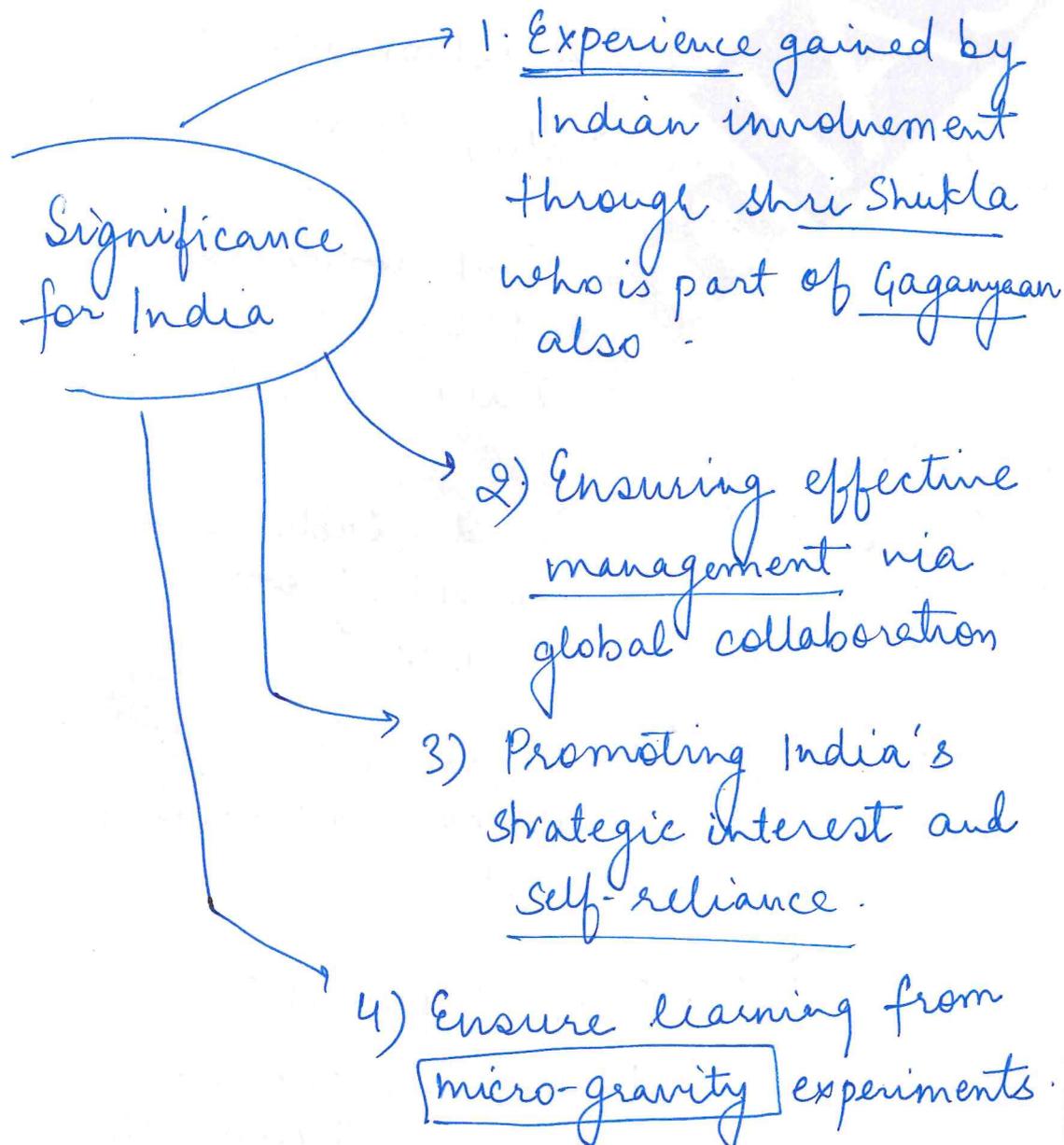
Q.15) Launched on 25th June 2025, the Axiom-4 (Ax-04) mission has been much in the news since then. What are the key features of the mission? What significance does it hold for the Gaganyaan project and India's long-term space ambitions? (15 Marks, 250 Words)

25 जून 2025 को लॉन्च होने वाला एक्सिओम-4 (Axiom-4; Ax-04) मिशन तब से ही काफी चर्चा में है। इस मिशन की मुख्य विशेषताएँ क्या हैं? गगनयान परियोजना और भारत की दीर्घकालिक अंतरिक्ष महत्वाकांक्षाओं के लिए इसका क्या महत्व है? (15 अंक, 250 शब्द)

The recent Axiom-4 mission (Ax-04) was a private space mission supported by NASA to take 4 astronauts to International Space Station (ISS)



The mission holds significant position for Gaganyaan mission planned by India. It aims to take human into space for boosting India's space economy



It can boost India's long-term space ambitions and help us achieve about five-fold growth in space economy (currently at 2% of global space economy)

- ① Designing failure-resistant avionics to protect human space flight.
- ② Role of INSpace in promoting private participation in space.
- ③ Building partnership such as NASA-ISRO Synthetic Aperture Radar or NISAR.

India's ambition of Bhartiya Space Station or BAS by 2035 can be better realised via such experience gained through Axiom Mission.

Feedback

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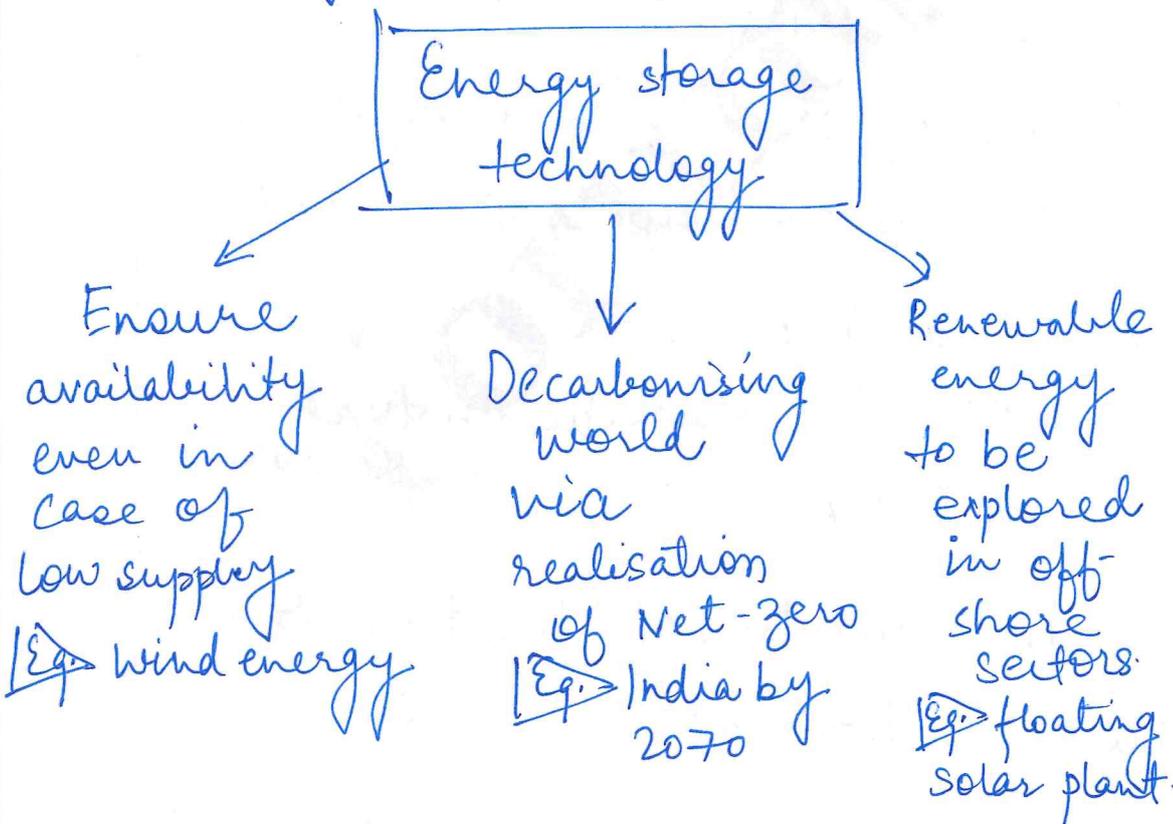
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Q.16) Energy storage technology is one of the major components of renewable energy integration and decarbonization of world energy systems. Briefly discuss any three such technologies, citing their key merits and demerits. (15 Marks, 250 Words)

ऊर्जा भंडारण तकनीक, विश्व ऊर्जा प्रणालियों के नवीकरणीय ऊर्जा एकीकरण और कार्बन-मुक्तिकरण के प्रमुख घटकों में से एक है। ऐसी किन्हीं तीन तकनीकों की संक्षेप में चर्चा कीजिए और उनके प्रमुख गुण-दोषों का उल्लेख कीजिए। (15 अंक, 250 शब्द)

Recently, countries have shifted focus on energy storage technology for providing round the clock availability of energy.



They can be instrumental in providing efficient energy supply:

(A) Battery Energy Storage system (BESS)

→ This involves utilising surplus energy to charge and store as chemical energy.

Merit

- 1) Provides supply when source is gone
- 2) Affordability

Demerit

- 1) Provides DC current, thus lowered efficiency
- 2) Issue in integrating with main supply

(B) Pumped hydro-storage system

This is used to pump water to a higher level and then utilise the flow during decreased natural flow of water

Merit

- 1) Provides continuous supply

Demerit

- 1) Threat to structure due to failure

(C) Earth storage system

This type of system utilises the underground system of storage for ensuring power supply during failure

Merit	Demerit
1) Provides stability to power supply.	1) Huge initial cost of installation
2) Enhances accessibility to renewable energy	2) Research & innovation required for better integration

The renewable energy sector now constitute about 50% of India's installed power capacity. Energy storage can provide secure, scalable and sustainable power supply.

Feedback

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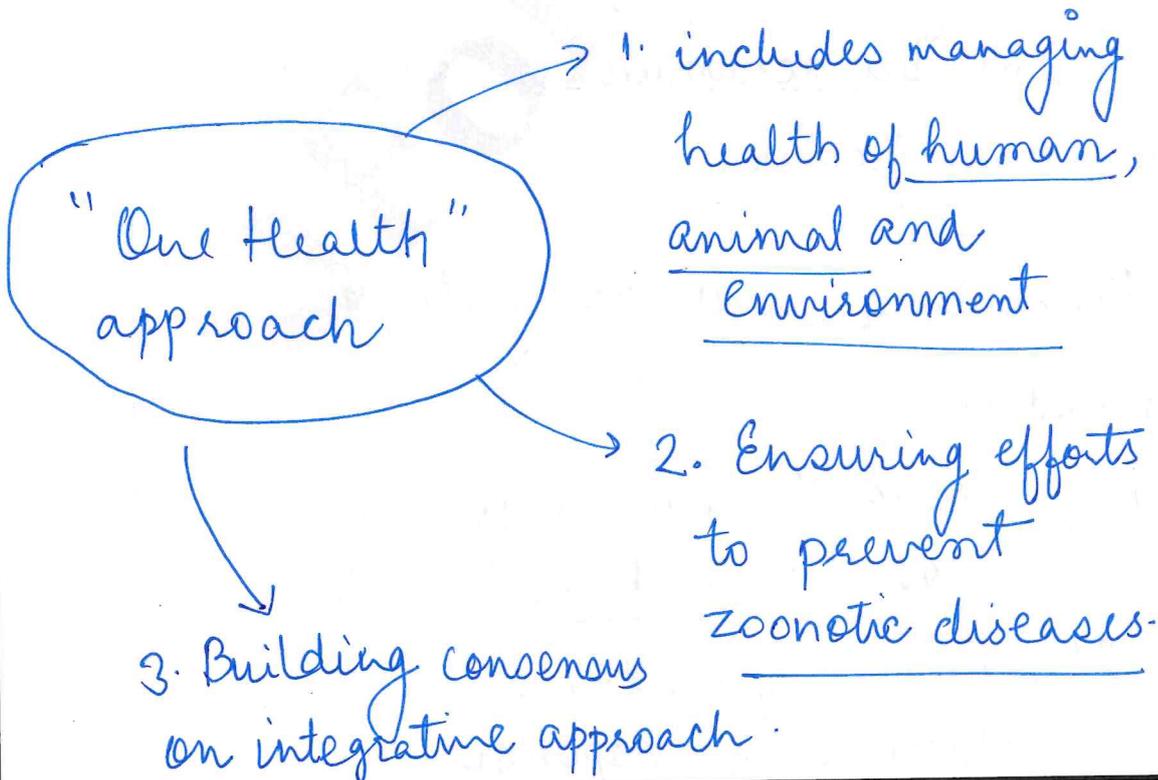


Q.17) Global Pandemic Agreement (2025) recognizes the 'One Health' approach as critical to pandemic prevention, preparedness, and response. Highlight the key features of the agreement, and elaborate on how the One Health approach can help in preventing future pandemics. What steps are needed to integrate this approach into India's environmental and health governance?

(15 marks, 250 words)

वैश्विक महामारी समझौता (ग्लोबल पैडेमिक एग्रीमेंट, 2025) महामारी की रोकथाम, तैयारी और प्रतिक्रिया के लिए 'वन हेल्थ' दृष्टिकोण को महत्वपूर्ण मानता है। इस समझौते की प्रमुख विशेषताओं पर प्रकाश डालिए और विस्तार से बताइए कि वन हेल्थ दृष्टिकोण भविष्य की महामारियों को रोकने में कैसे मदद कर सकता है। भारत के पर्यावरण और स्वास्थ्य प्रशासन में इस दृष्टिकोण को एकीकृत करने के लिए क्या कदम उठाने की आवश्यकता है? (15 अंक, 250 शब्द)

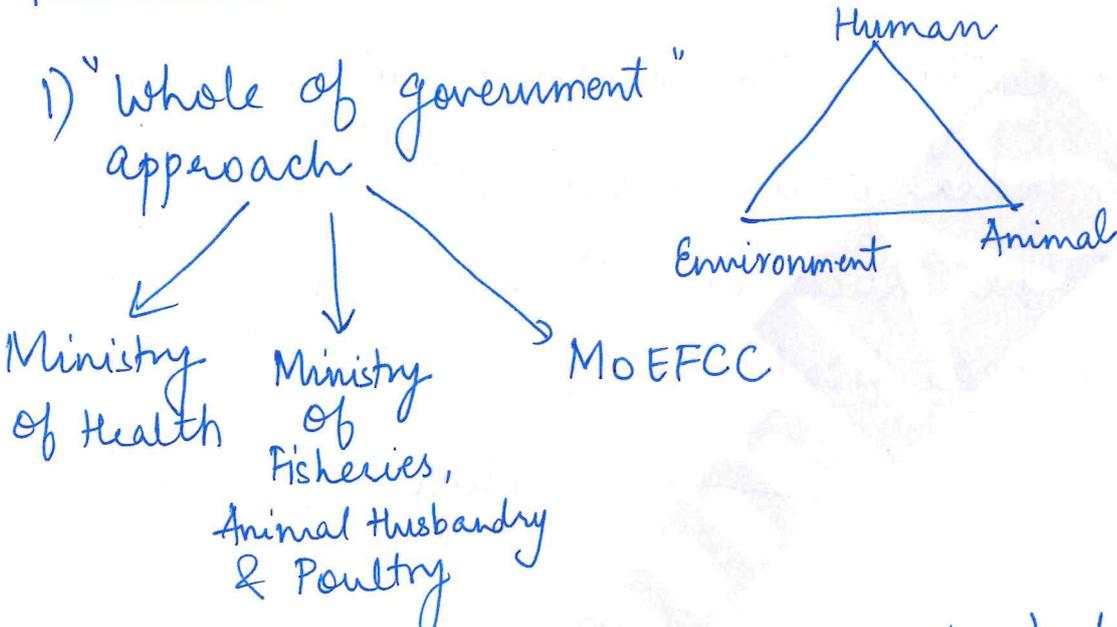
The recently concluded Global Pandemic Agreement (2025) is instrumental in building global consensus for collaborative efforts to manage epidemics in future



Features

- 1) One Health approach helps realise the importance of ecological balance while preserving human health.
- 2) Health of animals must not be neglected.
 [Eq.] lumpy skin disease of cattle.
- 3) Ensuring healthy food chain to prevent bio accumulation as well as bio magnification.
- 4) Preventing and mitigating pandemics.
 [Eq.] Covid 19 virus supposedly arose from bats.
- 5) Effective preparedness and collaborative response.

Steps needed to integrate "One Health" approach



2) Ensuring resilient health infrastructure

- ↳ Primary human care
- ↳ Veterinary structure to be modernised

3) Effective collaboration of society for healthy lifestyle

Mission LiFE under Modiji vision for deliberation and responsible human life can be a way forward.

Feedback

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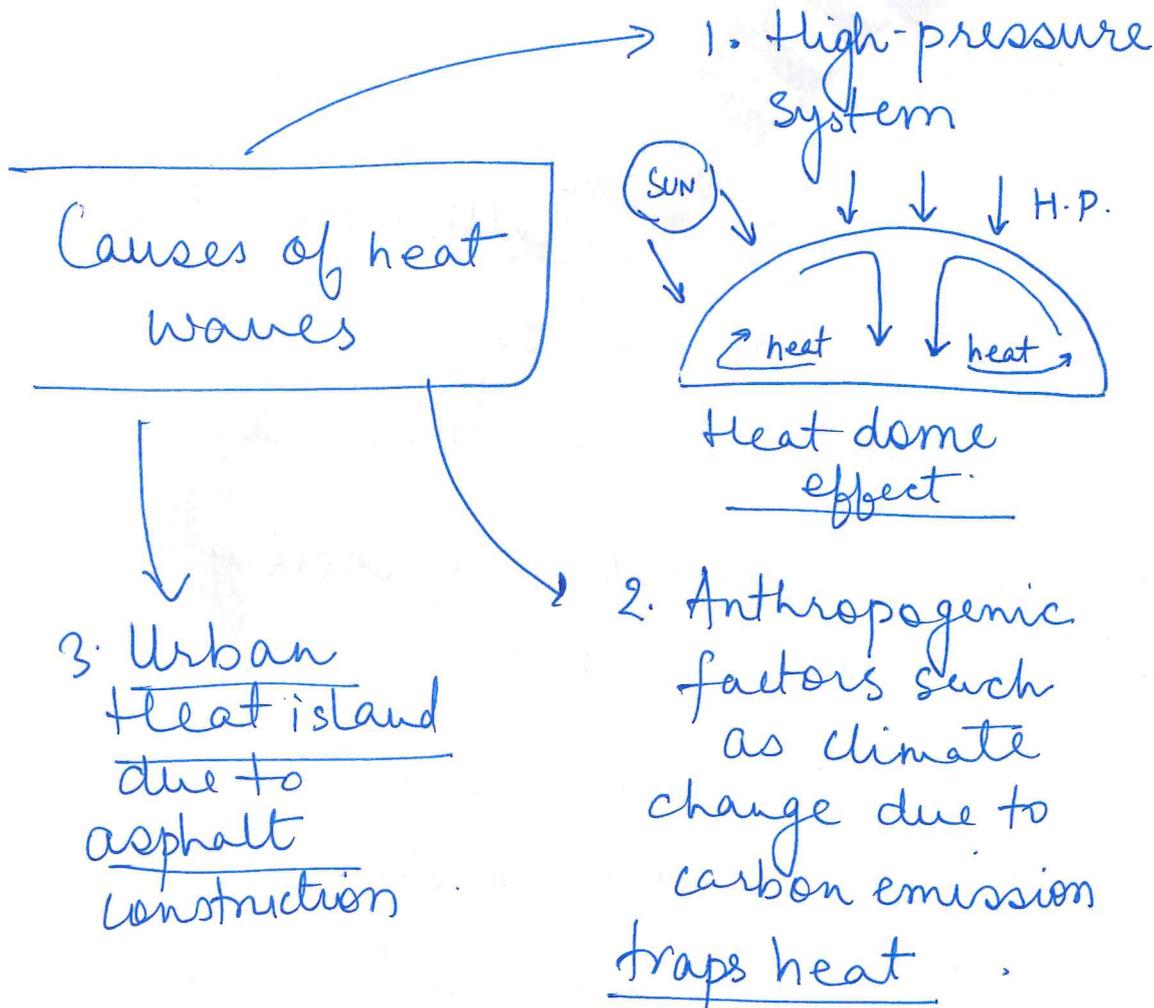
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Q.18) The frequency and intensity of heatwaves, particularly in urban centres, have increased in recent years. Describe the various causes and effects of heatwaves. What policies and frameworks have been adopted in India towards extreme heat risk management? (15 Marks, 250 Words)

हाल के वर्षों में, विशेष रूप से शहरी क्षेत्रों में, हीटवेव की आवृत्ति और तीव्रता में वृद्धि हुई है। हीटवेव के विभिन्न कारणों और प्रभावों का वर्णन कीजिए। भारत में अत्यधिक ऊष्मा के जोखिम प्रबंधन के लिए कौन सी नीतियाँ और ढाँचे (फ्रेमवर्क) अपनाए गए हैं? (15 अंक, 250 शब्द)

Recently, in the summer of 2025, North India particularly cities like New Delhi, Lucknow, Jaipur, Patna experienced heat waves.



Effects of heatwaves

1) It causes an increase in maximum temperature of a region, thus prolonged heat

Plain
above 40°C

Hilly region
above 30°C .

- 2) Loss of life due to heat stroke.
- 3) Threat to livestock
- 4) Failure of crops due to extreme heat conditions \rightarrow food insecurity
- 5) Increased pressure on water leading to decrease in water table.

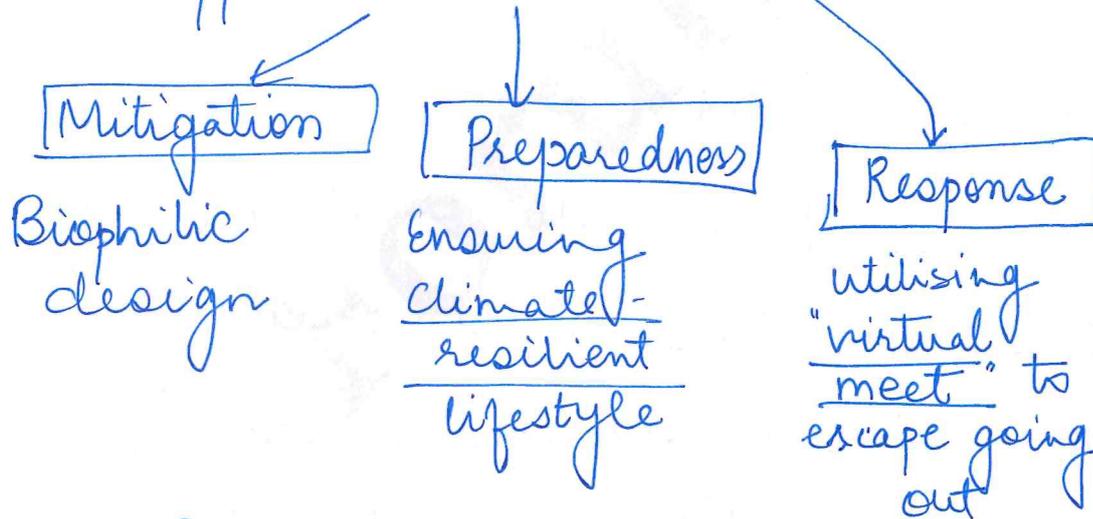
Therefore, various policies are adopted in India for effective management of

Extreme risk of heat :

1) Role of IMD in early warning system

2) Promoting Green city through "Nagar Vans"

3) Ensuring "whole of society" approach



4) Proactive role of governance in harnessing digital technology -
The increased frequency of heatwaves demand categorisation as "disaster" in India

Feedback

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TOTAL MARKS			



Q.19) Discuss how emerging technologies and globalization contribute to terror financing. Elaborate measures to tackle the menace of terror financing both at national and international levels.

(15 marks, 250 words)

चर्चा कीजिए कि उभरती प्रौद्योगिकियाँ और वैश्वीकरण किस प्रकार आतंकवाद के वित्तपोषण में योगदान करते हैं। राष्ट्रीय और अंतर्राष्ट्रीय दोनों स्तरों पर आतंकवाद के वित्तपोषण के खतरे से निपटने के उपायों पर विस्तार से चर्चा कीजिए।

(15 अंक, 250 शब्द)

Terror financing has become more sophisticated and difficult to track due to increasing use of digital technologies and emergence of global market.

Role of technology

- 1) Blockchain technology : Emergence of cryptocurrency has made it difficult to track the identity.
- 2) Money laundering through hawala transaction where the "layering" is difficult to track.

3) Use of Unmanned Aerial vehicles for trafficking of arms and drugs under organised crime.

4) Cyberspace emerging as a space for fund generation and cyberterrorism.

5) Role of international NGOs :-

Many civil society are involved in terror financing.

[Eg.] FCRA regulation in India.

Thus measures are needed at both national as well as global levels to tackle the menace.

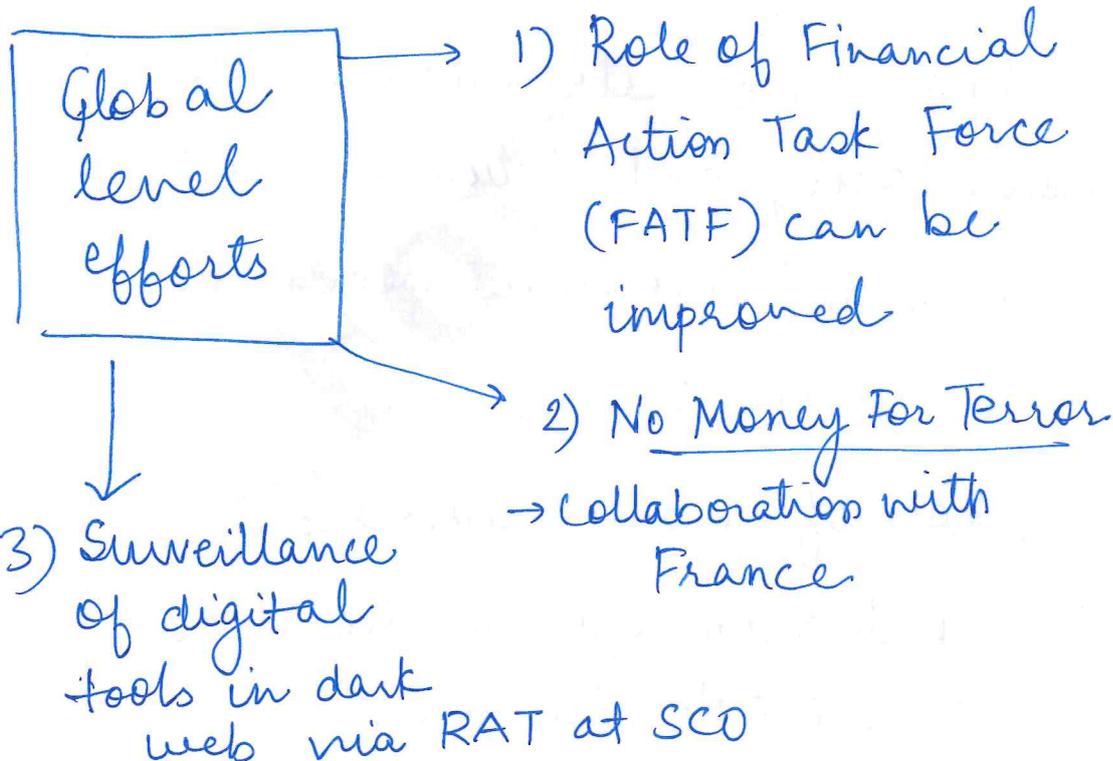
National Level

1) Strengthening PMLA via recent

amendment to involve virtual digital assets.

2) Ensuring digital adoption via Enforcement Directorate

3) Enhanced border surveillance to track drones.



Thus, this menace of cyber-space for terror financing needs proactive support of multiple stakeholders.

Feedback

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Q.20) Explain the key components of the National Policy and Action Plan (2015) that have contributed to the significant decline of Left-Wing Extremism (LWE). What additional steps would you suggest to eliminate LWE in the near future? (15 Marks, 250 Words)

राष्ट्रीय नीति एवं कार्य योजना (2015) के उन प्रमुख घटकों का वर्णन कीजिए जिन्होंने वामपंथी उग्रवाद (LWE) में उल्लेखनीय गिरावट में योगदान दिया है। निकट भविष्य में वामपंथी उग्रवाद को समाप्त करने के लिए आप कौन से अतिरिक्त कदम सुझाएंगे? (15 अंक, 250 शब्द)

Recently, Union minister of Home Affairs Shri Amit Shah ji claimed that only 6 districts remain impacted by extreme left wing extremism in India (LWE).

This can be attributed to the National Policy and Action Plan (2015) that led to significant decline of LWE in India :

1) Role of smart leadership which promoted collaboration of multiple stakeholders.

↳ Village Defence community.

2) Role of inclusive policy to promote socio-economic development of naxalism hit region

(Eg.) Promoting industries in Gadchiroli in Maharashtra.

3) Active role of armed forces.

(Eg.) CRPF in Dandakaranya region.

4) Actionable intelligence to reduce fatality of armed personnel

5) Rehabilitation of extremist via role of family, friends etc.

However to eliminate the left wing extremism by March 2026, few more steps are required:

- 1) Promoting trust building with the local community
- 2) Enhance representation in local government.
- 3) Provide better educational facility to young children
 [Eg.] ROSHNI scheme for increasing employment
- 4) Shift towards value-promoting armed force with civil cooperation
- 5) Protecting tribal autonomy in central India.

The left wing Extremism is breathing its last breathe. Thus, government must ensure its eradication.

Feedback

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Mentor Feedback Questions

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- 2
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Test Goal

- 1
- 2
- 3

Outcomes

-
-
-
-

Marking Scheme

Mark	Good	Average	Below average
10 Marker	3.75 - 5.0	3.0 - 3.5	< 3.0
15 Marker	5.75 - 7.0	4.0 - 5.5	< 4.0
20 Marker	7.75 - 10	6 - 7.5	< 6
	Key / Relevant Point		
	Vague / Irrelevant		

* Subject to change without prior notice.

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