



# VISION IAS

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## GENERAL STUDIES (TEST CODE : 1326)

|                   |              |                     |            |
|-------------------|--------------|---------------------|------------|
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| Medium Eng./Hindi | English      | Registration Number | 22703      |
| Center            | Online       | Date                | 2 Aug 2019 |

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| Q. No.                | Maximum Marks | Marks Obtained |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 1                     | 10            |                | <div>1. Do furnish the appropriate details in the answer sheet (viz. Name, Registration Number and Test Code).<br/>उत्तर पुस्तिका में सूचनाएं भरना आवश्यक है (नाम, प्रश्न-पत्र कोड, विद्यार्थी क्रमांक आदि)।</div> <div>2. There are <b>TWENTY</b> questions printed in <b>ENGLISH &amp; HINDI</b> इसमें बीस प्रश्न हैं अंग्रेजी और हिन्दी में छपे हैं।</div> <div>3. <b>All questions are compulsory.</b><br/>सभी प्रश्न अनिवार्य हैं।</div> <div>4. The number of marks carried by a question/part is indicated against it.<br/>प्रत्येक प्रश्न/भाग के अंक उसके सामने दिए गए हैं।</div> <div>5. 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. No marks will be given for answers written in medium other than the authorized one.<br/>प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए जिसका उल्लेख आपके प्रवेश पत्र में किया गया है और उस माध्यम का स्पष्ट उल्लेख प्रश्न-सह-उत्तर (क्यूसीए) पुस्तिका के मुख्य पृष्ठ पर अंकित निर्दिष्ट स्थान पर किया जाना चाहिए। उल्लिखित माध्यम के अतिरिक्त अन्य किसी माध्यम में लिए गए उत्तर पर कोई अंक नहीं मिलेंगे।</div> <div>6. Word limit in questions, if specified, should be adhered to.<br/>प्रश्नों में शब्द सीमा, जहाँ विनिर्दिष्ट है, का अनुसरण किया जाना चाहिए।</div> <div>7. Any page or portion of the page left blank in the Question-Cum-Answer Booklet must be clearly struck off.<br/>उत्तर पुस्तिका में खाली छोड़ा हुआ पृष्ठ या उसके अंश को स्पष्ट रूप से काटा जाना चाहिए।</div> |  |
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## EVALUATION INDICATORS

1. Contextual Competence
2. Content Competence
3. Language Competence
4. Introduction Competence
5. Structure - Presentation Competence
6. Conclusion Competence

Overall Macro Comments / feedback / suggestions on Answer Booklet:

1.

2.

3.

4.

5.

6.

**All the Best**

1. Given the growing ecological and geopolitical significance, Arctic region offers immense opportunities for serving India's long-term interests. Discuss.

(150 words) 10

बढ़ते पारिस्थितिक और भू-राजनीतिक महत्व के आलोक में, आर्कटिक क्षेत्र भारत के दीर्घकालिक हितों की पूर्ति हेतु व्यापक अवसर प्रस्तुत करता है। चर्चा कीजिए।

India was recently apprained as  
a member to the Arctic council the  
multilateral body looking after Arctic  
region.

growing ecological and geopolitical  
significance

- 1) Global warming would increase once  
resources of arctic region exploited.
- 2) Race for exploiting resources of Arctic  
↳ China launched white paper on  
Arctic silk route
- 3) Large potential of area to renewed  
energy source.  
↳ Petroleum and gas source.

- 4) Can become area of most important trade route as would reduce distance between Europe and East Asia
- 5) Huge investment opportunities for all countries.

### Indias long term interest

- 1) Energy security of India would be assured.
  - 2) Chance for Indian companies to undertake global project.
  - 3) Role as global player by creating global pact for Asian region.
  - 4) Reducing Chinese influence
- India should use its position as members of Asian council to present for free, rule based and equitable order for Asian region.

2. Discuss the challenges that India may face in the eventuality of withdrawal of US troops from Afghanistan. What options does India have to safeguard its interests in the context of the changing situation? (150 words) 10

अफगानिस्तान से अमेरिकी सैनिकों की वापसी की स्थिति में भारत के समक्ष आ सकने वाली चुनौतियों पर चर्चा कीजिए। परिवर्तित होती परिस्थितियों के संदर्भ में भारत के पास अपने हितों की रक्षा करने के लिए कौन-से विकल्प हैं?

Donald Trump, president of USA  
announced plan of withdrawal of  
US troops from Afghanistan.

Challenges India may face

- 1) Risk its investments in Afghanistan
  - ↳ Zaranj - Salma highway
  - ↳ Salma Dam
  - ↳ many companies investing.
- 2) Plan for central Asia connectivity  
would be at risk
- 3) Increase role of Pakistan in world  
politics due to close links with  
Taliban.
- 4) Increased terrorist attacks in Kashmir.

5) Regarding relation with Afghanistan  
if Taliban comes in power.

Options India has to safeguard interests

2) Participating in Taliban talks to ensure

- ↳ Afghan government represented
- ↳ leads to democratic constitution
- ↳ No vacuum created in Afghanistan  
for terrorist groups to flourish.

2) Improving relations with China to  
ensure regional safety.

3) Providing training of Afghan forces  
to ensure terrorist / Taliban do not  
flourish.

4) Putting pressure on Pakistan internationally  
to reduce safe havens for Taliban  
& ISI support.

A stable Afghanistan would ensure  
Indian borders remain safe and should  
be promoted

3. The BRICS as a grouping seems to have internal contradictions, which makes it difficult for it to emerge as an effective forum in a dynamic multi-polar international order. Critically discuss. (150 words) 10

एक समूह के रूप में ब्रिक्स (BRICS) में आंतरिक विरोधाभास विद्यमान प्रतीत होते हैं, जो गतिशील बहु-ध्रुवीय अंतर्राष्ट्रीय व्यवस्था में इसके एक प्रभावी मंच के रूप में उभरने को कठिन बनाता है। समालोचनात्मक चर्चा कीजिए।

BRICS is the grouping of Brazil, Russia, India, China and South Africa which wants to become an alternate for west dominated other multilateral institutions.

### Internal Contradictions

- 1) seen as Anti-Nato alliance, with China and Russia seen as USA's adversaries. While India wants to improve relation with USA.
- 2) Russia-China axis forming with Russia facing opposition from western countries.
- 3) Outlook on terrorism different as China & Russia do not want to name

Pakistan explicitly

- 4) OBOR repudiated by being supported by all other except India.
- 5) Democacies in Russia, Brazil and South Africa weakening.

However strength of BRICS

- 1) Persuading western powers for reforms in UNSC and WTO.
- 2) same stance on environment and WTO negotiation.
- 3) Institutionalised
  - ↳ New development bank
  - ↳ BRICS+
  - ↳ Rating agency proposed.
- 4) Many common agenda
  - ↳ Development      ↳ Trade
  - ↳ Prosperity

India should use BRICS for improving relations with China and persuading west for reform.

4. Despite India having immense soft power potential, it alone will not be sufficient to achieve India's foreign policy objectives. Examine.

(150 words) 10

भारत के पास अत्यधिक मृदु शक्ति (सॉफ्ट पॉवर) क्षमता होने के बावजूद, केवल यह भारत की विदेश नीति के उद्देश्यों की प्राप्ति हेतु पर्याप्त नहीं होगी। परीक्षण कीजिए।

soft power refers to the potential of a country to make relations with other countries positive/without using force.

soft power potential of India

- 1) large diaspora of India
- 2) Indian culture spreading  
↳ International Yoga Day
- 3) Indian religious connect.  
↳ Buddhism with East Asia.
- 4) Developmental funding  
↳ increased by ~ 27% in 2016-19.
- 5) History of non-alignment and supporting anti-colonial struggle.

Not alone sufficient

- 1) Indian neighbour behaves in strength and military action show  
↳ eg: China.
- 2) Matching (China on funding) not possible.
- 3) soft power works through mutual understanding  
↳ In today's world economic power more useful  
eg: OBOR

What India needs to do

- 1) Improve soft power status by strengthening Indian Cultural Council
- 2) Work with other nations to counter Chinese funding  
↳ Asia Africa growth corridor  
soft Power + Hard Power in the future of diplomacy and India needs to strengthen both

5. Highlighting the role of space technology in border management, enumerate the steps taken so far in this regard. (150 words) 10

सीमा प्रबंधन में अंतरिक्ष प्रौद्योगिकी की भूमिका पर प्रकाश डालते हुए, इस संबंध में अब तक उठाए गए कदमों को सूचीबद्ध कीजिए।

Recently parliamentary standing  
committee submitted report on role of  
space technology in border management.

Role of space technology in border  
management

1) securing all terrain border which  
becomes difficult physically

(using ImageSAT and satellites

2) infrared satellites for reducing  
border intrusions

3) communication satellites for improving  
communication facilities of border  
force.

4) using NAVIC for position fixing

5) using spy satellites for looking

into enemy defence bases.

- 6) Improved coordination among various forces through space tech.

### Steps taken so far

- 1) Dedicated satellite to be launched by ISRO for defence communication
- 2) 7-INSAT satellites being used for NAVIC positioning system.
- 3) Use of satellite imagery for surgical strikes and air strikes
- 4) Strengthen border forces using space communication & hand-held devices.

### Some Issues

- 1) High hardware cost.
- 2) Lack of electricity supply to border areas.

Using space technology would ensure easier border management by supplementing & complementing forces.

6. Despite allegations of human rights violations under the AFSPA, it is a functional requirement for the army in disturbed areas. Critically discuss.  
(150 words) 10

AFSPA के अंतर्गत मानवाधिकारों के उल्लंघन के आरोपों के बावजूद, यह अशांत क्षेत्रों में सेना के लिए एक कार्यात्मक आवश्यकता है। समालोचनात्मक चर्चा कीजिए।

Armed Forces Special Protection Act  
is currently being applied in Arunachal Pradesh, Assam, Nagaland, Manipur & Jand K.

Issues with AFSPA

- 1) Allegation of human rights violation by armed force.
- 2) Undermining fundamental rights
- 3) Allegations of sexual assault by armed force (Justice Veema Committee)
- 4) Complete immunity to armed forces led to misuse.
- 5) Failed in bringing normalcy to Jand K.

Need of AFSPA

- 1) succeeded in Punjab, Jammu and Kashmir and Meghalaya.
- 2) Removing would demolish armed forces who lay lies in these areas.
- 3) groups in J&K acting against integrity and sovereignty of India, getting help from Pakistan. This needs special law.

Way Forward

At present AFSPA needs complete immunity. Need for balance.

- sexual assault allegation to be investigated by independent body
- Punishment to persons misusing act.
- Regular update of case on home minister website.

AFSPA though needed should ensure balance between power to forces and rights of people

7. The use of Internet creates both challenges and opportunities in the fight against terrorism. Discuss. (150 words) 10

आतंकवाद के विरुद्ध लड़ाई में इंटरनेट का उपयोग चुनौतियां और अवसर दोनों प्रदान करता है। चर्चा कीजिए।

Internet can has provided both challenges and opportunities through medium such as social media - VOIP, encrypted data etc.

Challenges of internet in fighting terrorism

1) spread of propaganda through social media.

↳ Radicalisation in ISIL, Khalifa etc.

2) Use of encrypted chat for communication

↳ eg: WhatsApp

3) VoIP instead of phone calls

↳ used by Mumbai Attackers

4) cyber warfare

↳ terrorist groups hacking websites

↳ stealing data / money

- 5) how wolf attacks gathering information online  
 ↳ eg: Boston bomber on how to make bomb.

### Opportunities in fight against terrorism

- 1) Bringing public in confidence
- 2) using online activity to prevent terrorist acts.
- 3) Using Artificial Intelligence, Big Data to point out terrorist funding patterns.
- 4) De-radicalisation through social media.
- 5) Improving communication among agencies.

The need of hour is training of security forces and developing cyber expertise to use internet to prevent terrorist activities. Reference cyber Agency is step in right direction.

8. Explain the concept of Chandrasekhar Limit and highlight its significance in the field of astronomy. (150 words) 10

चंद्रशेखर सीमा की अवधारणा की व्याख्या कीजिए और खगोल विज्ञान के क्षेत्र में इसके महत्व पर प्रकाश डालिए।

Chandrasekhar limit is the number which tells the maximum weight a dwarf star should have to continue existing and not die off.

→ This limit used by astronomers to find stars which are about to die.

— help in finding age of universe through age of dying stars

— help in study of dark energy and dark mass

→ help in understanding black holes

- help in understanding the nature  
of universe at birth.
- help in predicting future astronomical  
events.
- astronomers can find / calculate  
rate of expansion of universe  
chandrashaker limit has proved  
to be of utmost importance for  
astronomers.

9. Examining the risk posed by space debris, suggest some measures which can be taken for its mitigation and removal. (150 words) 10

अंतरिक्ष में मलबे द्वारा उत्पन्न जोखिम का परीक्षण करते हुए, इनके शमन एवं हटाने हेतु कुछ उपायों का सुझाव दीजिए।

space debris refer to the satellites out of their life cycle or small man-made trash revolving around the earth.

Risk posed by space debris

- 1) Destroy working satellites and create more debris.
- 2) Reduce potential for launching satellites due to causing of crash by debris.
- 3) Risk human lives in international space center.
- 4) Risk for communication infrastructure on land becoming of no use due to obstructing path of satellites.

measures which can be taken

- 1) mandating satellites to burn themselves in earth's atmosphere after end of life
- 2) Removing recent debris by capture by net.
- 3) Removing debris by burning them in earth's atmosphere by pushing them.
- 4) Magnetic rods used for capturing them.

with the nanosatellites being launched the scope of space debris has exponentially increased. Thus a multilateral treaty on space debris management should be signed

10. Discuss the challenges confronting higher self-reliance and indigenisation of defence industry in India. What steps can be taken to accelerate its pace? (150 words) 10

भारत में रक्षा उद्योग के समक्ष उच्च आत्म-निर्भरता और स्वदेशीकरण से संबद्ध चुनौतियों की विवेचना कीजिए। इसकी गति को तीव्र करने हेतु क्या कदम उठाए जा सकते हैं?

According to recent report India has become the 2<sup>nd</sup> largest purchaser of defence equipments.

Challenges confronting self-reliance and indigenisation of space industry

- 1) Lack of private industry participation
  - ↳ Lack expertise
  - ↳ Not allowed historically
- 2) Failure of public industry to fulfill demand.
  - ↳ Failure in engineering jet engine.
  - ↳ Army rejected DRDO guns.
- 3) Lack of research and development in space technology.

- 4) NO future plan of Indian armed forces  
for requirement.
- 5) FOI in defence has not picked  
up.

### Steps which can be taken

- 1) Defence Procurement Policy to be  
followed in spirit
  - ↳ Focus on Buy (Indian) Buy  
(Indian - IDDM) - Make (Indian)
- 2) Start-ups to be promoted
  - ↳ Removing prior experience clause  
for small regisr
  - ↳ easy IPR.
- 3) strategic private partners to be decided  
on priority.
- 4) Defence university for engineering.
- 5) Harmonising procurement and pulling  
demands in advance  
Indigenous production would not  
only create jobs but provide strategic  
independence

11. Comment on the role played by the diaspora in India's development process. Also, discuss the challenges in terms of engaging the Indian diaspora and suggest ways to translate these partnerships into benefits.

(250 words) 15

भारत की विकास प्रक्रिया में प्रवासी समुदाय (डायस्पोरा) द्वारा निभाई गई भूमिका पर टिप्पणी कीजिए। साथ ही, भारतीय प्रवासी समुदाय को आकर्षित करने में आने वाली चुनौतियों पर चर्चा कीजिए तथा इन साझेदारियों को लाभों में बदलने हेतु तरीके सुझाइए।

Indian diaspora is one of the largest in the world, sending largest amount of remittance back to the country.

Role Played by diaspora in India's development

- 1) soft power status of India is strengthened when diaspora spreads Indian culture
- 2) Remittance by the diaspora helps in funding the trade deficit  
↳ largest remittance of around \$60 billion
- 3) skilling of diaspora abroad helps in development when they decide

to come back.

- 4) Achievements of diaspora in host countries improves India's standing in world order.
- 5) Indian diaspora when enters leadership job in host countries, helps strengthening country-country relations, thus teach.

### Challenges in engaging Indian diaspora

- 1) spread all over the world with presence in more than 150 countries makes outreach difficult.
- 2) majority low skilled labourers in Middle East.
- 3) Disparity among the diaspora.
  - ↳ Some work as some CEO
  - ↳ either low skilled or very high skilled (PhD) holders.

- 4) Host nation may not encourage India interacting with their citizens
- 5) lack of funds with Indian foreign ministry as compared to others.

ways of translating nationhood into benefit

- 1) encouraging high skilled persons to relocate back to India.
- 2) Providing opportunity for short term engagements with Indian universities and start-ups.
- 3) Permanent presence of diaspora in the foreign ministry.
- 4) Providing them with investment opportunities backed by government.

creating OCI and PIO card was a step in strengthening relations with diaspora. Such steps should continue to benefit.

12. Highlight the reasons behind proliferation of multilateral preferential trade agreements. Do they violate WTO's MFN principle? Do you think that such trade groupings present an existential threat to WTO? (250 words) 15

बहुपक्षीय अधिमान्य व्यापार समझौतों के तीव्र वृद्धि के पीछे निहित कारणों पर प्रकाश डालिए। क्या वे WTO के MFN सिद्धांत का उल्लंघन करते हैं? क्या आपको ऐसा प्रतीत होता है कि इस प्रकार के व्यापार समूह, WTO के समक्ष अस्तित्वपरक खतरा प्रस्तुत करते हैं?

Various multilateral preferential trade agreements which repeal preferential tax and other benefits to countries signing it, such as TPP and RCEP are redefining.

Reasons behind proliferation of multilateral preferential trade agreements

- 1) Failure of WTO to ensure free trade  
↳ eg: Trade war between America and China.
- 2) Regional agreements are easier to take advantage of.  
↳ easy transportation

- ↳ cultural understanding  
eg: ASEAN.
- 3) Success of European Union has encouraged regional blocks to move towards single market
- 4) Developed countries feel that IPR standards of WTO are weak
- ↳ refer 'TRIPS'
- ↳ against overgreening and compulsory licensing
- 5) Such agreements are a step towards regional peace as economies become intermingled.

### Violation of WTO's MFN principle

WTO's MFN (Most Favoured Nation) principle ensures that a country gives equal benefit to all other nations.

→ Although multilateral preferential agreements repeal preferential

treatments to goods/services of some nations

→ They are not against MFN status or WTO provided for exception for such agreement.

Present existential threat to WTO!

Yes

- countries would stop participating in WTO functioning.
- such agreements more beneficial specially for developed nations
- Funding to WTO may reduce

However

- such agreements are difficult to reach

↳ eg: RCEP, USA out of TPP

- developing nations such as India feel WTO is the platform for trade agreement because of equality

WTO should ensure reforms through better dispute resolution and final resolution on public stockholding to remain relevant.

13. India needs to balance its growing water needs and larger security concerns with effective hydro-diplomacy. Highlighting the challenges faced with regard to transboundary rivers, analyze this statement in the context of India's riparian relations with its neighbours. (250 words) 15

भारत को अपनी बढ़ती जल आवश्यकताओं और व्यापक सुरक्षा चिंताओं को प्रभावी जल-कूटनीति के माध्यम से संतुलित करने की आवश्यकता है। सीमा पारीय नदियों से संबंधित सामना की जाने वाली चुनौतियों पर प्रकाश डालते हुए, अपने पड़ोसियों के साथ भारत के नदी-जल संबंधों के संदर्भ में इस कथन का विश्लेषण कीजिए।

Water requirement of India has been increasing with increasing population and demand in agriculture (70% of all) and industry.

Balance water needs & security concern

- India shares rivers with Pakistan, China, Nepal, Bangladesh & Myanmar
- India has to ensure its water needs are fulfilled while upholding unity and integrity of the country.

Challenges faced with regard to transboundary rivers

- 1) old sharing conventions on water sharing - signed during 60's and 70's,

- do not take care of emerging needs.
- 2) Border disputes with Pakistan and China - further make river water sharing difficult
  - 3) lack of multilateral convention for river shared by more than 2 countries  
↳ eg: Beahmaputra
  - 4) lack of data sharing agreement

### India - China

- 1) Share Beahmaputra (Siang) on eastern front and Satlyj on western.
- 2) Data sharing MOU with regard to Beahmaputra and Satlyj.  
↳ only monsoon data shared.
- 3) China building dams on Beahmaputra  
↳ Jiang, Zhangmu etc.
- 4) Floods in Beahmaputra due to lack of sharing

India - Pakistan

- 1) Share Indus and the 5 tributaries
- 2) Pak signed Indus Water Sharing Agreement
- 3) Pakistan raised concerns on Lower Kalnai project

India - Bangladesh

- 1) Teesta and Ganga main rivers
- 2) Ganga sharing agreement signed.
- 3) Teesta agreement in limbo due to opposition of West Bengal government

India - Nepal

- 1) Kosi and Kaliganga main rivers.
- 2) Project on Kosi pending.
- 3) Project on Kaliganga - Panchsheel pending.

India should complete project on cross border rivers on priority and need to sign water data sharing agreement.

14. Commenting on the importance of Central Asia for India, highlight the progress made in the relationship in recent past along with the issues that still remain to further cement the ties. (250 words) 15

भारत के लिए मध्य एशिया के महत्व पर टिप्पणी करते हुए, हाल के दिनों में संबंधों में हुई प्रगति पर प्रकाश डालिए, साथ ही साथ ऐसे मुद्दों का उल्लेख कीजिए जिन पर संबंधों को और अधिक सुदृढ़ करने हेतु ध्यान दिया जाना अभी भी शेष है।

Central Asia consisting of countries like Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan are important for India due to various reasons.

Importance of Central Asia

- 1) Energy rich region  
↳ eg: Kazakhstan largest uranium source.  
↳ gas in Turkmenistan  
↳ other metals
- 2) source of gold in Kyrgyzstan
- 3) connecting India to Eastern Europe
- 4) stability in Afghanistan through multilateral co-operation.

- 5) Reducing Chinese influence on the region
- 6) countries provide investment opportunities for Indian companies.

### Progress made in relationship

- 1) India joined regional organisations such as Heart of Asia, SCO etc
- 2) Part of transportation links
  - ↳ International North South Corridor
  - ↳ Bishkek agreement
  - ↳ Zarej - Delacem highway
- 3) Developing of Chabahar port for direct linkage
- 4) India has set annual meeting at one of the 5 central Asian countries.
- 5) negotiation to join Eurasian Economic Union (EEU)

Issues which still remain

1) China's influence

- ↳ All countries part of OBOR
- ↳ China's economy important as export raw material

2) Religious extremism has been increasing

- ↳ Taliban & ISIS spreading

3) lack of direct connectivity as land locked.

4) USA sanctions of Iran will have deleterious effect on Chabahar &

INSC

5) China and Russia axis forming against USA. (\$100 billion trade)

- ↳ Russian influence on region.

India needs to act to ensure connectivity and close relations to which would ensure energy security and investment opportunity

15. Discuss the significance of India's island territories in its quest to become a net security provider in the Indian Ocean region. (250 words) 15

हिंद महासागर क्षेत्र में वास्तविक सुरक्षा प्रदाता बनने की भारत की आकांक्षा के आलोक में, इसके द्वीपीय प्रदेशों के महत्व की चर्चा कीजिए।

Indian Island territories has can  
divided into two : The Lakshadweep  
in Arabian Sea and Andaman and  
Nicobar Islands in Bay of Bengal.

Significance of Island territories

- 1) Presence in Indian Ocean, which is  
one the most busiest water body.  
↳ 33% of whole world trade passes  
through it.
- 2) closeness to Strait of Malacca, considered  
a choke point
- 3) closeness of East China sea, which  
has seen China's claim for  
territory

4) Lakshadweep Islands ensuring providing  
safely to oil tankers specially  
around somalian coast from  
 piracy

5) countering China's string of pearls

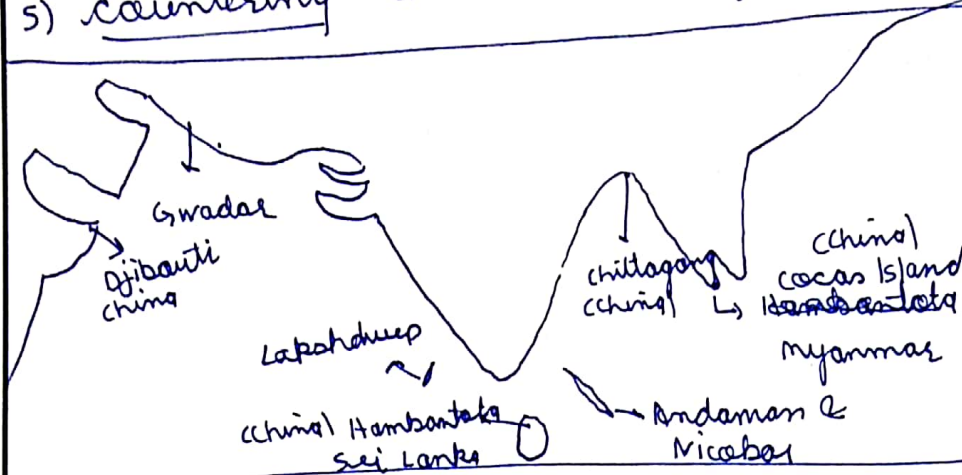


Fig: China's String of pearls

6) Larger role in Indo Pacific as envisioned  
by USA and the Quad grouping

### Issues at present

- 1) Lack of infrastructure on islands  
↳ Internet cable from mainland pending
- 2) Lack of deep port for aircraft carrier

- 3) Distance from mainland makes development project costly
- 4) Risk from natural disasters Eg: Tsunami

### Steps Taken By India

- 1) Creation of Island Development Authority
- 2) Joint Andaman command encompassing army, navy and air force
- 3) Partnership with Japan for development of projects in Andaman
- 4) Andaman - Aceh link in Indonesia.

### What further can be done

- 1) Partnership with Indonesia for developmental projects due to less distance
- 2) Completion of developmental projects planned.

Indo-Pacific has been highlighted as single theater of 20<sup>th</sup> century and Indian islands have a role to play in

16. A fine balance between security and developmental measures needs to be attained for tackling the menace of Left Wing Extremism (LWE) in India. Analyse. (250 words) 15

भारत में वामपंथी उग्रवाद (LWE) के खतरे से निपटने हेतु सुरक्षा और विकासात्मक उपायों के मध्य एक उत्कृष्ट संतुलन स्थापित करने की आवश्यकता है। विश्लेषण कीजिए।

Recent report of Ministry of Home Affairs highlighted success in tackling Left Wing Extremism (LWE) through balance of security and development.

Assuring security

- 1) Increasing armed forces presence in 90 districts affected by LWF.
- 2) Providing infrastructure to local police through Police modernisation program
- 3) Improving more detection technology  
↳ No repeat of Sukma

- 4) Providing more resistant teach/tech
- 5) Using technology such as sensors and UAV's for detecting enemies
- 6) Specialised forces such as Black Panther in Chattisgarh and Grey Hound in Andhra Pradesh
- 7) Money laundering by narco leaders to be eliminated.
- 8) Training of forces for adequate response.

### Developmental Measures

- 1) Providing basic infrastructure such as roads and mobile connectivity
- 2) Improving governance and ensure government schemes reach people  
↳ Nai Manzil, Roshni etc
- 3) Schools and colleges fulfilling

requirement of local population.

↳ eg: Residential colleges in Pantnagar.

- 4) Providing assistance to marals who succeed.
- 5) crisis outreach to ensure trust building.
- 6) Forest Rights Act to be implemented in spirit.

Left Wing extremism spread  
due to weak governance - alienation  
of public and insufficient security  
measures. Balance between security  
and development has proved  
successful.

↳ Red corridors districts reduced  
to 90 from 106

↳ Increase in succenders by 400+

This should continue further.

17. Illustrate the linkages between drug trafficking, organised crime and terrorism. In this regard, mention the steps that have been taken to arrest the availability of drugs in India. (250 words) 15

मादक पदार्थों की तस्करी, संगठित अपराध और आतंकवाद के मध्य संबंधों को उदाहरण प्रस्तुत करते हुए समझाइए। इस संबंध में, भारत में मादक पदार्थों की उपलब्धता पर अंकुश लगाने हेतु उठाए गए कदमों का उल्लेख कीजिए।

Drug trafficking, organised crime and terrorism are closely related as these activities not only supplement each other but also overlap.

Linkages between drug trafficking -  
organised crime and terrorism

1) Terrorist organisation undertake drug trafficking and organised crimes like kidnapping, murders, fake currency circulation for funding.

2) Terrorist and organised syndicates

use same logistics and market  
for spreading violence

3) Attacks are provided by such  
groups to each other.

4) AD network governance through  
corruption and betting thus  
supplement each other

steps taken by India to arrest  
availability of drugs

1) Passing legislation

↳ Drugs and Psychotropic Substances  
Act

↳ Prevention of drugs and psychotropic  
substances Act

2) Drug and Psychotropic Substances  
Policy 2015

3) International cooperation

↳ Pacts with Myanmar, Afghanistan,  
Nepal, UAE, USA

4) multilateral cooperation

↳ Working with interpol

↳ Working under UN office of drug  
of psychotropic substances

5) WHO - UN - Punjab collaboration to increase  
awareness and treat addicts6) strengthening Prevention of money  
laundering Act to include drug  
trafficking.7) strengthening border with Pakistan  
using CIBMS and updating Free  
movement Regime with Myanmar.

Drug Trafficking, organised  
crime and Terrorism should be  
tackled through common approach as they  
are work closely.

18. Identify the key threats to national security in the wake of climate change. Also, highlight India's stand and rationale on UN's decision to declare climate change as an international security issue. (250 words) 15

जलवायु परिवर्तन के आलोक में राष्ट्रीय सुरक्षा के सम्मुख प्रमुख खतरों की पहचान कीजिए। साथ ही, जलवायु परिवर्तन को एक अंतर्राष्ट्रीय सुरक्षा मुद्दा घोषित करने के संयुक्त राष्ट्र के निर्णय पर भारत के दृष्टिकोण और औचित्य पर भी प्रकाश डालिए।

climate change refers to the increase in extreme events of weather due to the increase in global temperatures.

Key threats to national security in wake of climate change

- 1) Regional Inequality may increase with coastal areas most affected.  
↳ such situation fertile for radicalisation

- 2) Forced migration and refugee crises  
↳ such groups have historically been targeted by extremist  
↳ eg: ARSA targeting Rohingyas for radicalisation.

- 3) Reduction in defence spending of a country due to focus on fighting climate change.
- 4) Widespread poverty and destruction due to crop failures, droughts and floods.
- 5) Using natural disasters as war strategy  
 (eg: Tibetan glaciers melting rapidly can be used to cause floods in India).

UN's decision to declare climate change as an international security issue

→ United Nations highlighting the risk of climate change has declared it as security issue to be faced by all countries.

→ India has not supported the

UN's decision because

- ↳ 12 Feb UNFCCC should assess  
such situation does not arise
- ↳ It would remove focus on  
preventing climate change
- ↳ developed countries have more  
responsibility and should fund  
mitigation in developing countries

climate change has become a  
very real national security challenge.  
India should ensure multilateral  
cooperation to prevent a global  
warming above 1.5°C and also  
as developing nations can  
mitigate through funding.

19. Explaining the concept of data exclusivity, bring out the arguments for and against incorporating data exclusivity norms in India's IPR regime.

(250 words) 15

डेटा एक्सक्लूसिविटी (डेटा विशिष्टता) की अवधारणा की व्याख्या करते हुए, भारत की IPR व्यवस्था में डेटा एक्सक्लूसिविटी संबंधी मानदंडों को सम्मिलित करने के पक्ष और विपक्ष में तर्क प्रस्तुत कीजिए।

concept of data exclusivity is related to patenting of medicines. Data exclusivity ensures that the data which proved the efficacy of a particular medicine or vaccine is kept confidential and not shared along with the patent even after patent expires.

Advantages of Data exclusivity

- 1) Pharmaceutical companies can be assured of other companies not using their effect.
- 2) Research and development efforts would increase once their data is exclusive.

- ③ chance of false positive in data reduces  
as all companies have their own  
trial in their own conditions.
- ④ Easier to finalise RCEP and BTIA  
with Europe, as data exclusively  
has been a demand.
- ⑤ India becoming center of pharmaceutical  
excellence from present center of  
cheap drugs.
- ⑥ Help in improving exports and thus  
current account deficit would  
reduce.

### Disadvantages of Data exclusivity

- ① Cost of medicines would increase,  
as all companies would have to
- ② Generic medicine companies would  
have to get over test  
↳ Increase cost

↳ chance of not succeeding

- ③ can raise way for evergreening if no other companies can assure independent result.
- ④ Indian renewal of generic medicine center would be taken away.
- ⑤ Affordability for millions would be affected.
- ⑥ Compulsary licensing may also become prohibitive as data would not be shared.

India should ensure strengthening its pharma R&D, improving local access of API and abiding by TRIPS to ensure development of pharma industry - along with access to affordable medicine.

20. Compare and contrast fifth generation (5G) of wireless telecom technology with 4G technology. What challenges need to be overcome for 5G's pan-India rollout? (250 words) 15

4G प्रौद्योगिकी के साथ पांचवी पीढ़ी (5G) की वायरलेस दूरसंचार तकनीक की तुलना कीजिए और उनके मध्य अंतर बताइए। 5G के अखिल भारतीय क्रियान्वयन हेतु किन चुनौतियों से निपटने की आवश्यकता है?

Generation of technology in  
telecom are defined on the basis of  
content which they can carry or the  
speed of content transfer they can  
provide.

5G and 4G

- 1) speed : 5G technology is said to  
be 100 times faster than 4G.
- 2) latency : in 5G would be lower  
than 4G.
- 3) density : Number of users per area which  
can be serviced would be more in  
5G.

- 4) security infrastructure of 5G would be more robust as compared to 4G.
- 5) 5G like 4G would be able to transfer data, text and make calls.
- 6) 5G would be more efficient on the battery side as compared to 4G.

### Challenges for pan-India rollout

- 1) Infrastructure requirement for 5G are different than 4G, thus need new investments.
- 2) low profits of telecom companies after entering of 5G ~~make~~ them.
- 3) Technology of 5G provided by Huawei access many nations can prove harmful due to data theft as pointed by USA.
- 4) The 5G spectrum bidding may

go for high price and thus making  
5G costly in India

- 6) 5G would not work in present  
mobiles and may need new handsets

What India can do!

- 1) Technology of 5G to be developed  
indigenously through government  
backing.
- 2) spectrum of 5G at fixed low prices  
as recommended by economic survey
- 3) Issuing fair market practices by  
present telecom companies for  
sustainable business.

5G would lead to explosion  
of Internet Of Things and other steps like  
test bed of 5G at IIT Madras is step  
in right direction