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(To be filled by candidate)

Code # TC071

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Roll No.: 08'02613

Registration Number : PTTP220487 Date of Examination : 08/08/2023

Exam Centre : Old Rajinder Nagar Bhopal Online

MTS IGP Batch 2023

GENERAL INSTRUCTIONS

This Question-cum Answer (QCA) Booklet contains 56 pages. Immediately on receipt of the booklet, please check that this QCA booklet does not have any misprint or torn or missing pages or items, etc. If so, get it replaced by a fresh QCA booklet.

Candidates must read the instructions on this page and the following pages carefully before attempting the paper.

Candidates should attempt the questions strictly in accordance with the instructions specified in the question paper and in the space prescribed under each question in the booklet. Any answer written outside the space allotted may not be given credit.

Question paper will be provided separately and can be taken by the candidates after conclusion of the exam.

SUBJECT/PAPER
GENERAL STUDIES

Invigilator's Sign. :



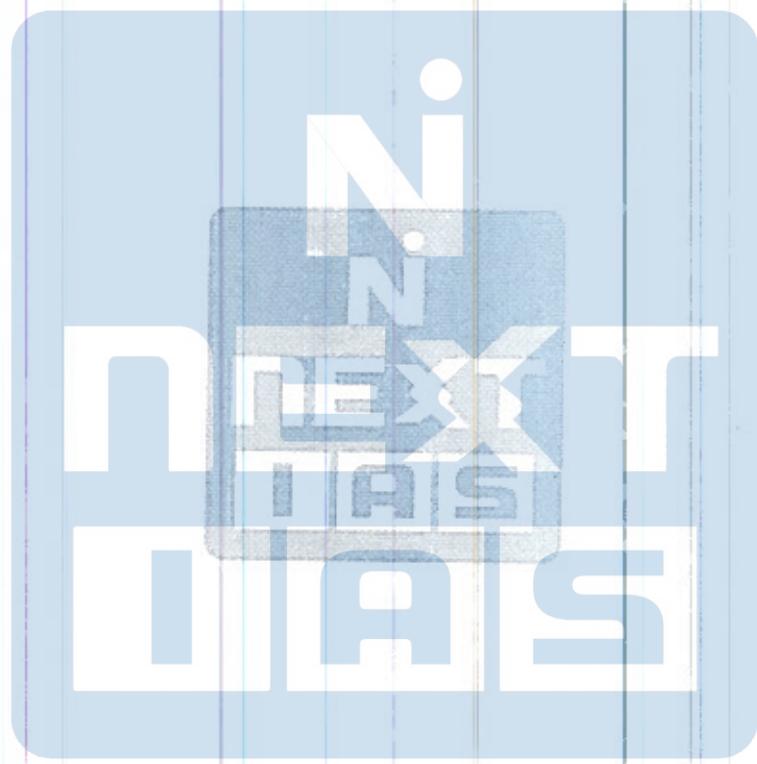
(For filling by Examiners only)

Evaluator Code :

Q.No	Pg No.	Maximum Marks	Marks	Total
1	1			
2	3			
3	5			
4	7			
5	9			
6	11			
7	13			
8	15			
9	17			
10	19			
11	21			
12	24			
13	27			
14	30			
15	33			
16	36			
17	39			
18	42			
19	45			
20	48			
Grand Total				

Signature

MACRO COMMENTS



IMPORTANT INSTRUCTIONS

CANDIDATES SHOULD READ THE UNDERMENTIONED INSTRUCTIONS CAREFULLY. VIOLATION OF ANY OF THE INSTRUCTIONS MAY LEAD TO PENALTY.

DONT'S

1. Do not write your name or registration no. anywhere inside this Question-cum-Answer Booklet.
2. Do not write anything other than the actual answers to the questions anywhere inside your QCA Booklet.
3. Do not tear off any leaves from your QCA Booklet, if you find any page missing do not fail to notify the supervisor/invigilator.
4. Do not leave behind your QCA Booklet on your table unattended, it should be handed over to the invigilator after conclusion of the exam.

DO'S

1. Read the Instructions on the cover page and strictly follow them.
2. Write your registration number and other particulars, in the space provided on the cover of QCA Booklet.
3. Write legibly and neatly. Do not write in bad/illegible handwritings.
4. For rough notes or calculation, the last two blank pages of this booklet should be used. The rough notes should be crossed through afterwards.
5. If you wish to cancel any work, draw your pen through it or write "Cancelled" across it, otherwise it may be evaluated.
6. Handover your QCA Booklet personally to the invigilator before leaving the examination hall.

- Q.1 भारतीय दार्शनिक विचार का ताना-वाना उत्तरी भारत का उत्तरा ही ऋणी है जितना प्रक्षिण भारत का। स्पष्ट कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

The fabric of Indian philosophical thought owes as much to Northern India as to Southern India. Elucidate.
(Answer in 150 words) 10 Marks

INDIAN PHILOSOPHY is a symbol of cultural assimilation of region, religion, caste and gender, representing INDIAN ethos of "unity in DIVERSITY".

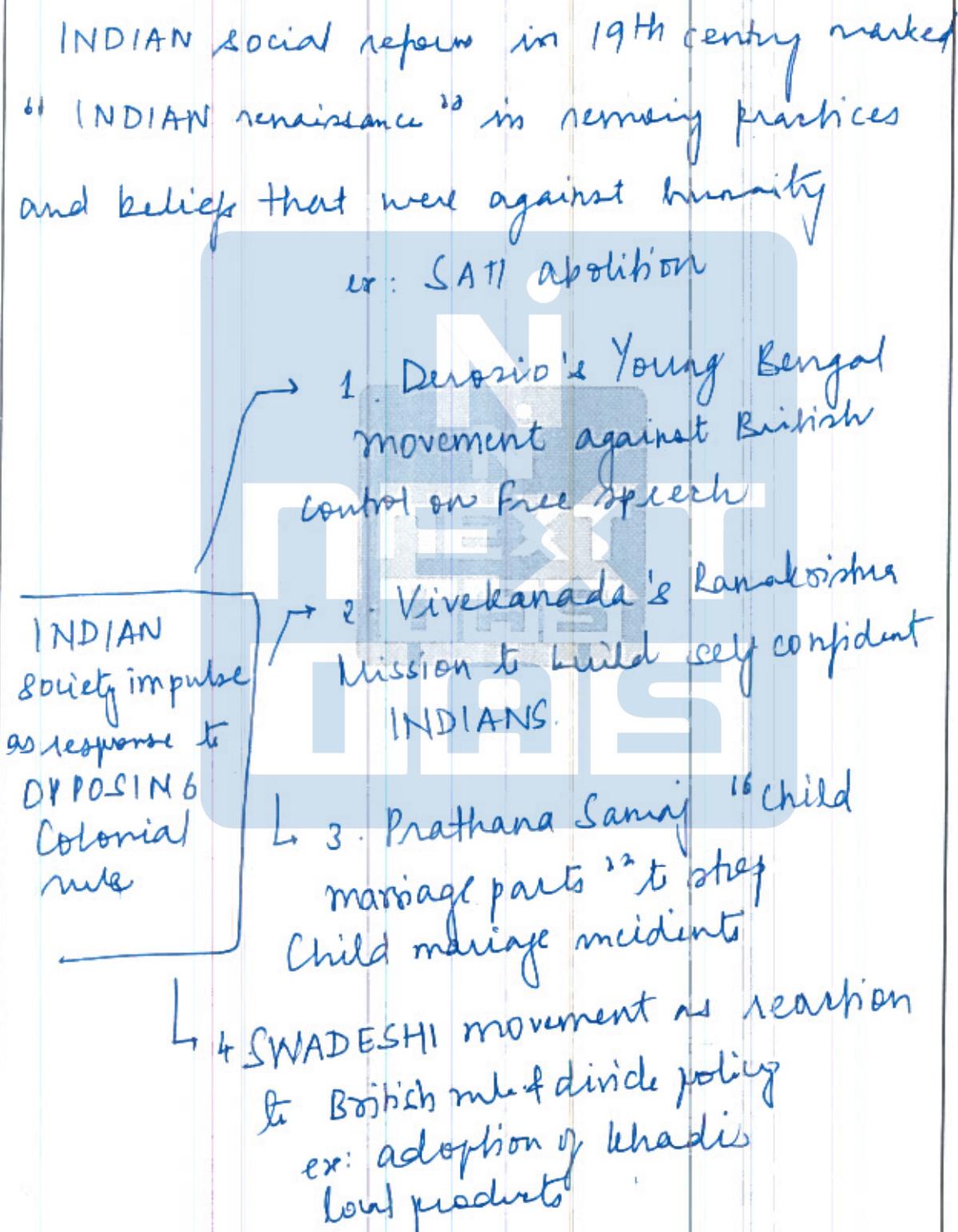
INDIAN PHILOSOPHICAL thought in North INDIA.

- CONTRIBUTION of Buddha, Mahavira to rise of JAINISM & BUDDHISM
ex: Tirthatna, Anekantavada
of JAINS
- Ashoka's patronage to AJIVNIK sect in Barabar caves (BIHAR)
- in SHAD-DARSHANA, PATANJALI'S YOGA
which is from centre such as TAKSHASHILA
(current day Afghanistan)
- similarly NYAYA school of sage Gautama is from North of Vindhyas.
- Bhakti saints such as KABIR, MIRABAI, LAL DED are from northern India.

- CONTRIBUTION from Southern INDIA.**
- 1. Tiruvalluvar's TIRUKURAL is symbol of SANGAM literature.
 - 2. VEDANTA developed by ADI shankaracharya led to HINU derivations
ex: 4 MUTTS established for cultural unity
 - 3. Sri Ramanujaranger developed ADVAIMA VEDANTA or Dualified non dualism
ex: BHITA Bhashya
 - 4. Madhavacharya's Pushtimay is from South India.
 - 5. Contribution of Alvars and Nayannars.
ex: NALARIYA divya prabandam
 - 6. AKKAMAHADEVI & role of Basavanni Anubhava mudras
 - 7. Cultural composers such as Tyagari, Annamacharya, Ramadasu in UNIVERSALING philosophy
- Hence, contribution of both regions have led to shinghey INDIA's "SALADBOWL"

Q.2 सामाजिक परिवर्तन और सुधार के लिए भारतीय समाज का आवेग औपनिवेशिक शासन के प्रति इसके विरोध की एक प्रतिक्रिया थी। परीक्षण कीजिए।
 (150 शब्दों में उत्तर दीजिए) 10 अंक

The Indian society's impulse for social change and reform was a response to its opposition to colonial rule. Examine.
 (Answer in 150 words) 10 Marks



⑤ steps by Gandhi on Harijan Sabha,
Weekly Harijan magazine were to stop
division of society

ex: Poona pact on
joint electorates

Colonial progressive laws
such as Sati, widow
remarriage Act

However
use of colonial
rule for social
change

Colonial policies helped
in social change
ex: Age of consent, Sarda
act

Also due to education provided
by Colonial Power
ex: rise of Middle classes
questioning practice.

Syed Ahmed Khan used colonial
policy for promoting Muslim education

hence it must be seen that social change
was built on two wings that created
Conducive features for Mass mobilization in
INDIAN national struggle.

- Q.3 रूसी क्रांति को प्रभावित करने वाले कारक कौन-कौन से हैं तथा इस क्रांति के क्या-क्या परिणाम हैं ? भारतीय राष्ट्रीय आंदोलन पर इसके प्रभाव की विवेचना कीजिए। (150 शब्दों में उत्तर दीजिए) 10 अंक

What are the factors that led to the Russian revolution and what are the consequences of this revolution? Discuss its influence on the Indian national movement. (Answer in 150 words) 10 Marks

Russian revolution in [1917-19] on OCTOBER
 REVOLUTION happened in overthrowing Tzar
 conservative regime and establishing SOCIALIST
 state of USSR.

FACTORS
 that led
 to Russian
 revolution

- 1. Tzar regime oppression
- 2. War time (WW I) costs
 and inflation
- 3. Public costs and rising
 poverty
 ex: Bread was costly
- 4. leadership of Bolsheviks
 and LENIN
- 5. loss of lives during WWI
 of civilian soldiers.

CONSEQUENCES

- 1. Cement ideology of
 SOCIALISM
- 2. strengthens idea of
 UNIONISM, Cooperatives
 ex: Kolkhoz.

3. rise of precedents for cold war rivalry
on ideologies

4. Policy of appeasement to Italy and
Germany ex: Munich conference

5. leading to NAZISM and crimes on
Jews & ex: World war II concentration camps.

IMPACT on
INDIAN national
movement

1. Dadabai Naoroji
participated in 1st International
congress of socialist parties
in 1919

2. percolation of SOCIALIST
ideas & 1927 trials
of Lucknow conspiracy

3. formation of S. A. Dange
led COMMUNIST party

4. SOCIALISM in INC policies
ex: Fair price - agriculture.
declaration for
land reform.

5. strengthened INDIAN democratic
socialism as ideal & post independent policy
ex: Planning Commission.

Hence, Russian revolution was watershed
in 20th century history upto 1991 USSR
collapse.

Q.4 पृथ्वी की सतह पर तापमान के असमान वितरण के लिए उत्तरदायी विभिन्न कारकों की चर्चा कीजिए।

(150 शब्दों में उत्तर दीजिए) 10 अंक

Discuss the various factors responsible for the uneven temperature distribution on Earth's surface.

(Answer in 150 words) 10 Marks

Temperature varies on EARTH surface based on various factors that impart adaptation & survival.

FACtORS

1. Temperature at equator is UNIFORM due to CENTRALITY and uniform solar insolation

ex: Rainforests of Congo

2. As latitude increases, temperature VARIATION increases

ex: At Poles ~ 6 month summer/winter

3. TILT of earth's axis leads to SEASON formation.

ex: Antarctica - Coldest temperature -

4. CONTINENTALITY or land mass
interior is cold

ex: SIBERIA

5. Presence of water bodies creates Moderating effect due to sea & land breezes
ex: Coastal areas moderate temperature
6. hilly areas lead to different temperature due to ALTITUDE
ex: Himalayas
7. Green house gas emissions also impact temperature
ex: Los Angeles smog
8. Ocean currents impact formation of deserts cold Benguela current on
ex: Kalahari desert
9. Land Topography - rocks lead to higher temperature.
ex: KARST limestone.
10. winds & air masses lead to temperature variation
as temperature further increase, there is a need for enhancing studies on distribution variation [ex: NISAR]

- Q.5 जलवायु परिवर्तन के कारण हिमनदों के पिघलने का पारिस्थितिकी तंत्र और मानव समाज पर गम्भीर प्रभाव पड़ता है। हिमनदों के पिघलने के कारण पर्यावरण पर पड़ने वाले प्रभावों और इस मुद्दे के समाधान के लिए किए जा सकने वाले उपायों पर चर्चा कीजिए।

(150 शब्दों में उत्तर दीजिए) 10 अंक

The melting of glaciers due to climate change has serious implications for the ecosystem and human society. Discuss the effects of melting glaciers on the environment and the measures that can be taken to address this issue.

(Answer in 150 words) 10 Marks

Almost 1/3rd glaciers have started melting
in Hindu-Kush - Himalayan zone as per
(HKH)
AR6 report creating wide spread challenges

ex: HKH as water tower of India,
China & Asian countries

GLACIER
melt
implications

1. it reduces ALBEDO -
and enhances solar insolation

2. it creates POSITIVE
feedback loop

ex: rise in ARTIC
Amplification with faster pace.

3. it can lead to disasters
such as GLACIAL lake outburst
floods ex: uttarakhand

4. impact INDIA's climatic divide
or monsoon frequency

5. Impact Seismic activity

ex: Avalanche

6. Glaciers Water crisis.

ex: 80% rivers perennial

source can be extinguished.

7. Lead to loss of lives and livelihoods

MEASURES
to TACKLE

1. Control on Black carbon,
PM 2.5, PM 10.

2. Sensors to study glacier
and glacial lakes
ex: SIKKIM.

3. balanced development
ex: JOSHIMATH zoning

4. using technology such as
RISAT, ISRO remote sensing for
glaciers

5. reduce green house gas emissions

6. Life movement for sense consumption

as M. C. Misra Committee
recommended, there is need for

glacier monitoring & also studying zones

proximate to glaciars in SUSTAINABLE development

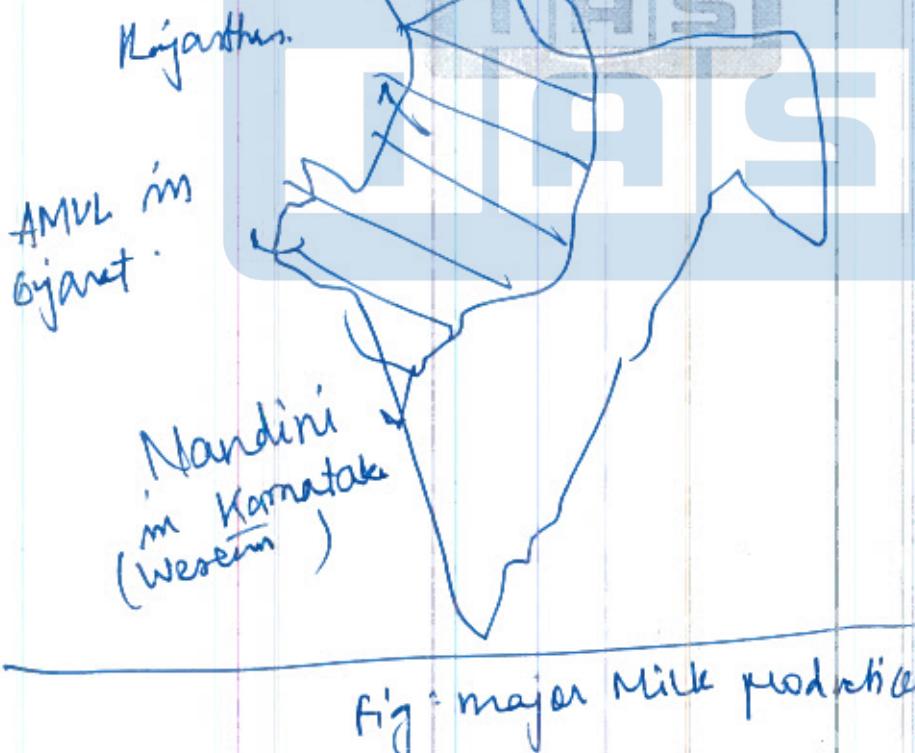
- Q.6 श्वेत क्रांति भारत के पश्चिमी भाग में सर्वाधिक सफल रही। श्वेत क्रांति की इस क्षेत्रीय सफलता के कारकों की विवेचना कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

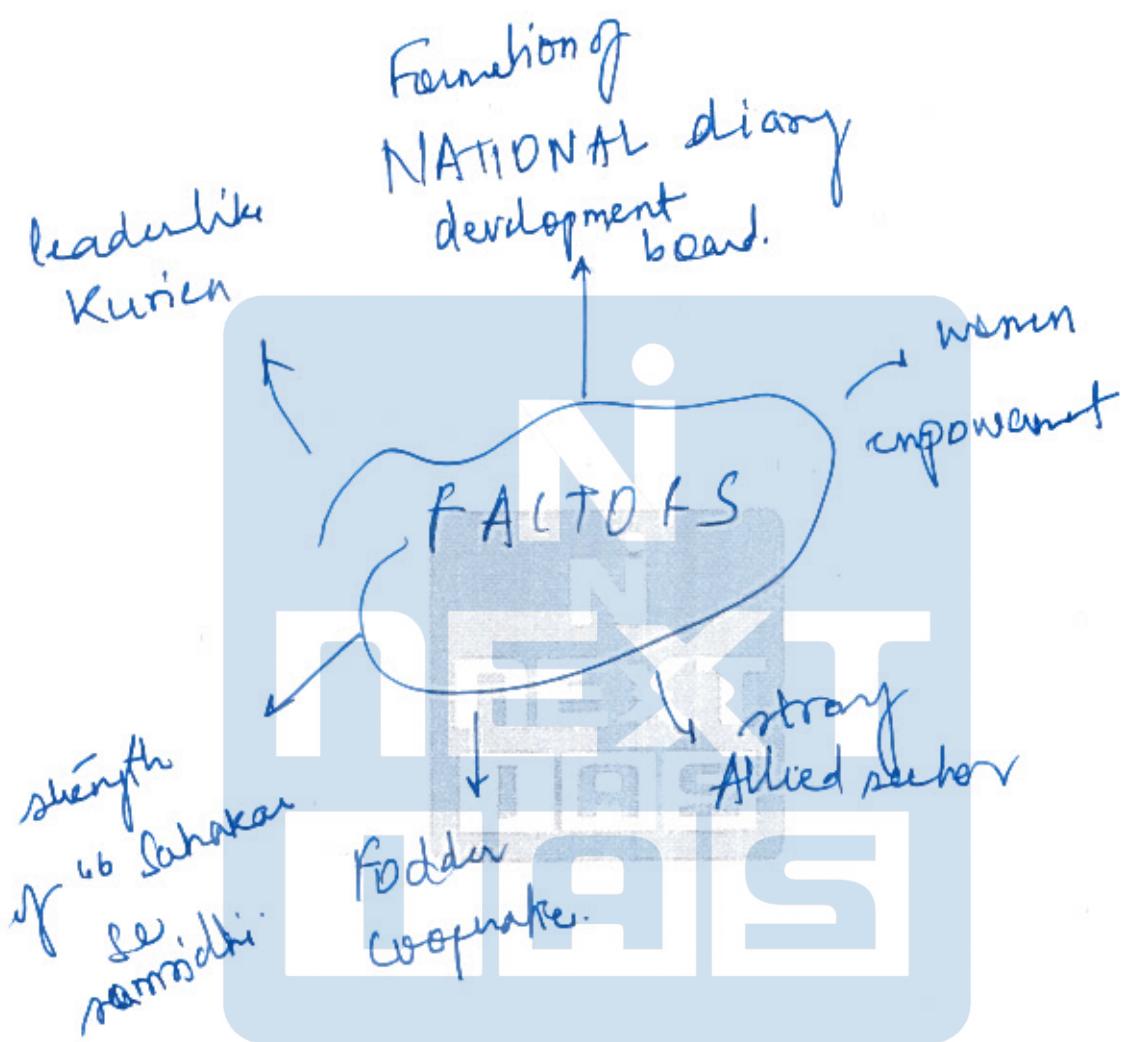
The White Revolution was most successful in the Western part of India. Discuss the factors for this regional success of the White Revolution.
(Answer in 150 words) 10 Marks

White Revolution is operation focused

that led to COOPERATION of
Milk production

ex: INDIA on largest
production





Hence INDIA's MAIN BOW
development needs strong emphasis on
cooperatives, Allied sectors and schemes
like GOKUL mission.

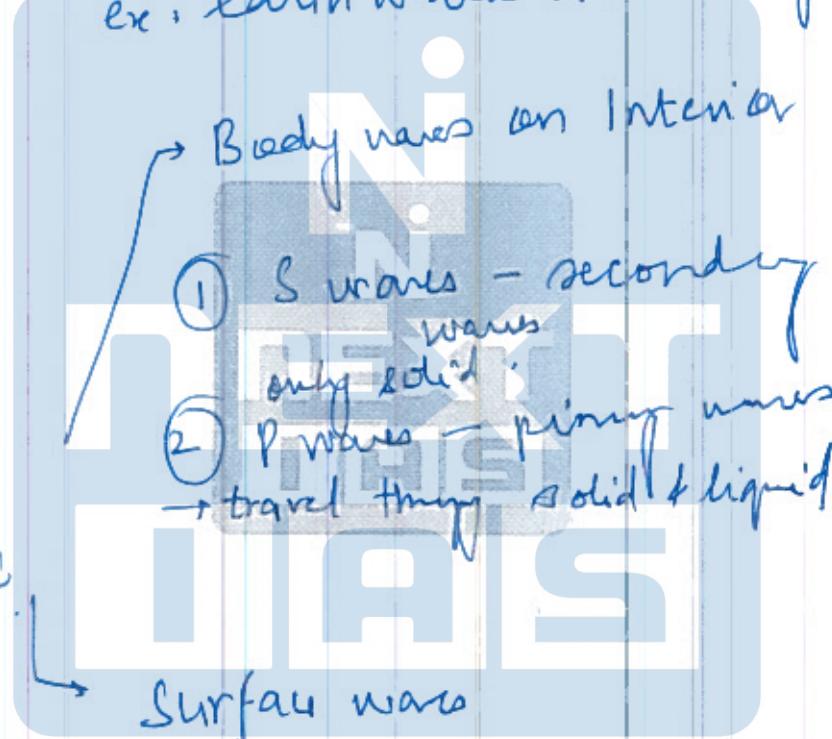
Q.7 पृथ्वी की आंतरिक संरचना की हमारी समझ में भूकंपीय अनुसंधान किस हद तक योगदान करता है? इसके महत्व का विस्तार से विश्लेषण कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

To what extent does seismic investigation contribute to our understanding of the Earth's interior structure?
Analyze its significance in detail.
(Answer in 150 words) 10 Marks

Seismic waves are important source
of INTERIOR information.

ex: earth waves via Seismograph

Type of
SEISMIC
waves

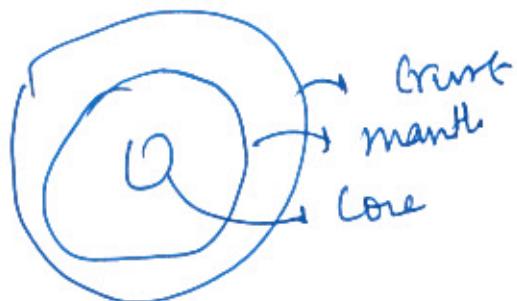


① Love waves

② Rayleigh waves.

→ They can cause destruction.

on internal STRUCTURE



SIGNIFICANCE
of SEISMIC
wave.

explains DENSITY band
on signal travel
ex: S-wave shadow
zone.

↳ help in understanding
layers:
ex: INNER & Outer core

are distinct
. INNER - liquid - as
S waves don't pass

↳ help in understanding DISCONTINUITY
ex: Mohorovičić

They must be used with gravity,
rock and other sources for tectonic's
study.

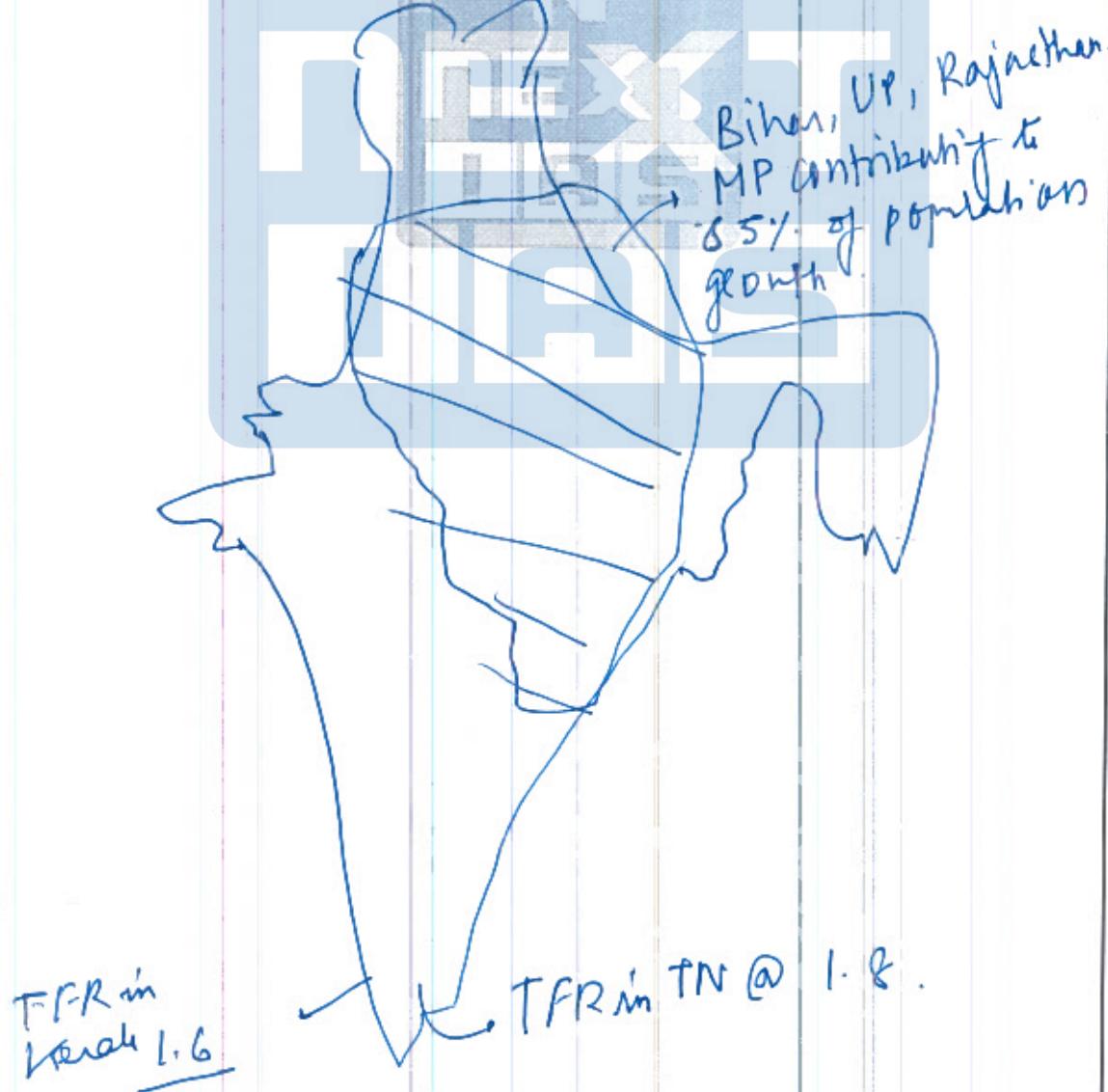
- Q.8 जनसांख्यिकीय संक्रमण की गति भारत के विभिन्न राज्यों में भिन्न-भिन्न है, जिससे जनसंख्या वृद्धि दोधारी तलवार बन जाती है। टिप्पणी कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

The pace of demographic transition varies across different states of India making population growth a double-edged sword. Comment.

(Answer in 150 words) 10 Marks

India has overtaken China as most populous country as per UNFPA report with 1.45 billion (2023)

However pace varies between states



→ 1. Political issue between North & South states over POPULATION representation

it can be Demographic dividend or disaster
ex: 1/3rd children are STUNTED
19% world in 2022 (NFHS)

Population as double edge sword

→ it can impact social harmony
ex: Muslims TFR 2.6
Hindus 2.0.

→ it can create Migration as condition
ex: Ageing Kerala → Bihar's youth.

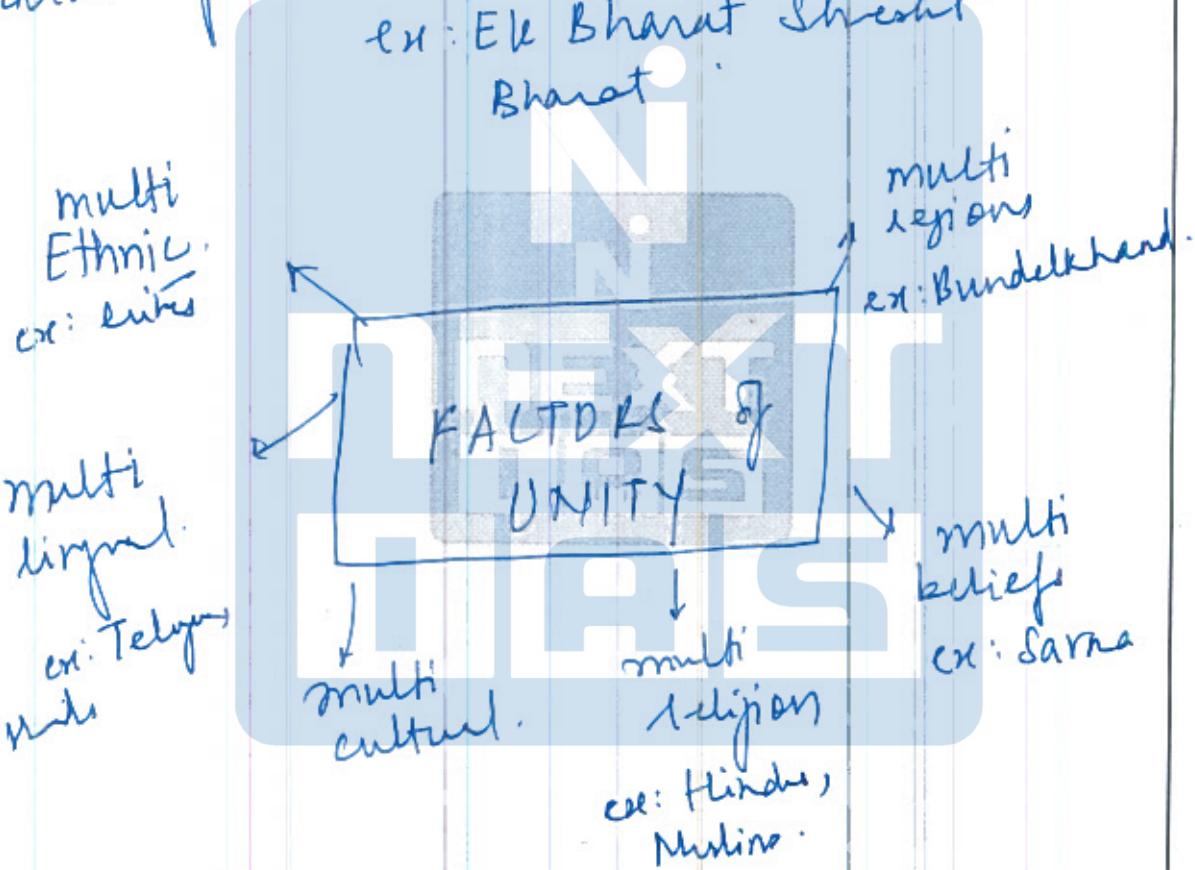
→ issue of relative deprivation
ex: North East high TFR with high literacy

hence INDIA's investment in education, health and still are count for AMRIT people and dividend of huge working age population.

- Q.9 भारत में नृजातीय और सांस्कृतिक विविधता हमेशा से एकता के सूत्र में बँधी रही है। भारत की सांस्कृतिक एकता में योगदान करने वाले प्रमुख कारकों की चर्चा कीजिए। (150 शब्दों में उत्तर दीजिए) 10 अंक

The ethnic and cultural diversity in India has always been bound by the thread of unity. Discuss the major factors that have contributed to the cultural unity of India. (Answer in 150 words) 10 Marks

INDIA is called "cradle of races" and is known for upholding unity in diversity



CAUSATIVE of unity

1. INDIAN constitution

ex: SARVA DHARMA samastha - Art 28

2. HISTORY

ex: Bhakti-muji composite

3. year of living together
Banya-Tamuna tereeb

4. Celebrations
ex: Us Gaon ki Ramleela
where music perform.

5. Beliefs
ex: 70% of all INDIANS
believe in Karma -

6. Char dham yatra for regional unity

7. SECULAR education and spirit of
unity (AG 51 A)

8. Leader like Gandhi
ex: Ashrams to show
common living.

9. Local traditions and great tradition
Commonality

However cultural unity also has shown
values of Caste, Patriarchy to continue
which must be dismantled for VIKASIT
Bhart (D) 2047'

- Q.10 भारतीय समाज में विद्यमान सार्वजनिक और जिंदी जीवन में द्विभाजन जाति के उन्मूलन के लिए एक प्रमुख बाधा के रूप में कार्य करता है। औचित्यपूर्ण उत्तर लिखिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

The dichotomy in public and private life in Indian society acts as a major barrier to the annihilation of caste. Justify.
(Answer in 150 words) 10 Marks

"ANNIHILATION of Caste" was advocated by Dr B. R. Ambedkar to end Caste discrimination and remove societal prejudices
ex: Caste continued in Voting and public mobilisation.

DICHOTOMY OF
PUBLIC & PRIVATE
life

Public life has seen
changes with

CONSTITUTION - Art 14, 15, 16,

o Preamble - EQUALITY & JUSTICE

LAWS such as 16 Protection of
civil rights 22

SC/ST / Prevention of Atrocities
Act

• Creation of National Commission for
Scheduled Castes

• SECULARIZATION of EDUCATION

• Temple entry movements

However Private life sees continuity of Caste:

1. Mahayanchayat of Caste groups
ex: BURJARS
2. Two tier system in shops
3. Social exclusion in rural areas
ex: Dalit villages
4. MANDAORIZATION of Caste
ex: JATS demand OBC status
5. Identity politics with Caste reservation demands
ex: Vaniyan Brahmins demand OBC status

This has led to . POLITICIZATION of Caste
ex: BSP, SP parties

. POLARIZATION of Caste ex: JATS vs Yadavs

. demand & scramble for privileges
and SECULARIZATION of Caste

Hence CASTE remains pervasive and needs to be tackled with Modernisation, value education, enforcing Constitutional rights, no deterrence approach for crimes on dalits to ensure vision of Gandhi & Ambedkar are realized.

Q.11 स्वतंत्रता के बाद भारत को कई युद्ध लड़ने के लिए विवश किया गया था। हमारे द्विपक्षीय संबंधों पर भारत-पाक और भारत-चीन युद्धों के कारणों और प्रभावों पर प्रकाश डालिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

India was forced into numerous wars post Independence. Highlight the causes and impact of the Indo-Pak and Indo-China wars on our bilateral relationships. (Answer in 250 words) 15 Marks

INDIA was forced into numerous standoffs in Post independent era that have impacted regional dynamics, South Asian ties and INDIA's socio-economic consequences.

VARIOUS wars

→ 1962 war with China that led to capture of Aksai Chin

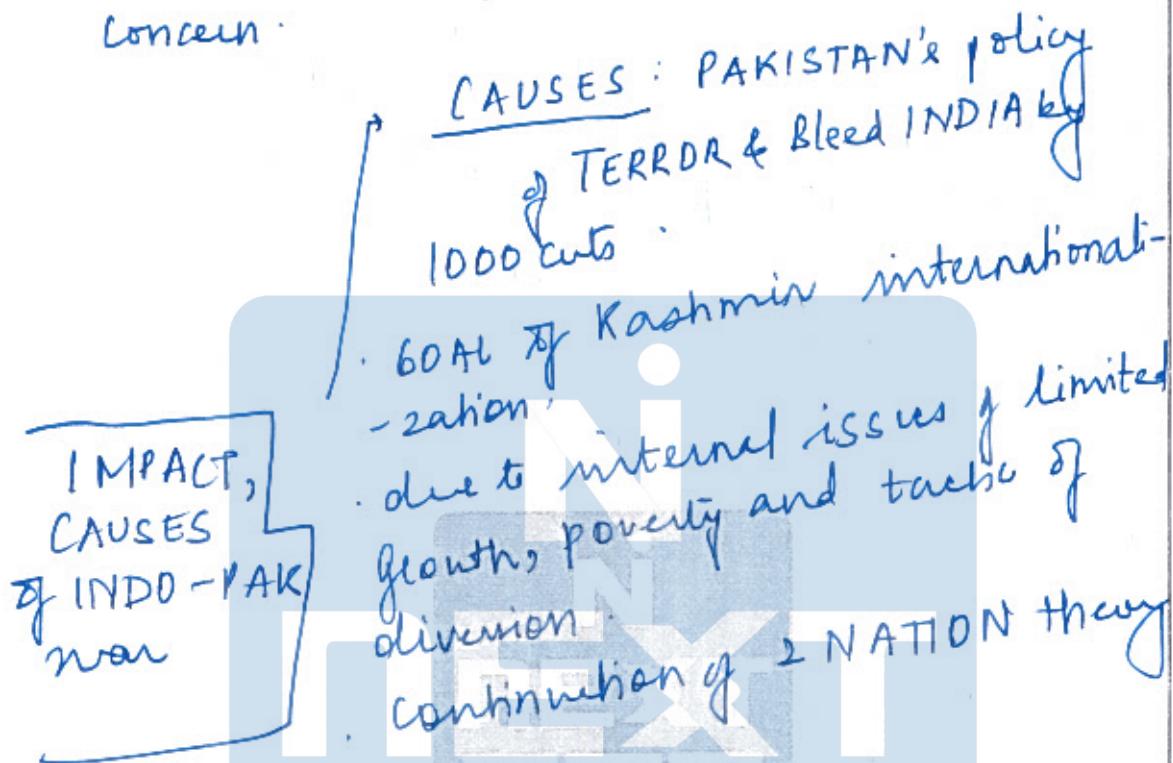
1965 war with PAKISTAN along western border

1971 war that led to Bangladesh liberation

1999 Kargil war that led to India recapturing strategic area of KARGIL that was illegally occupied by Pakistan.

Apart from this PAKISTAN state policy of tensions created issues of 2001 Parliament attacks, 26/11 attack, Balakot strikes

Also galwan valley clashes, China's doklam standoff show areas of deep concern.



In this has impacted INDO-PAK Bilateral relations:

- ① INDIA has decided "Perpetrators of terrorism cannot sit on same table"
- ② PAKISTAN isolation through prioritization of BIMSTEC over SAARC
- ③ strengthening connectivity in South Asia with PAKISTAN ex: Kaladan Multimodal project
- ④ enacting CAA for persecuting Hindus, Sikhs
- ⑤ using FATF, UNSC for banning terrorist funding

1. Counter strikes POST pulwama to show INDIAN capability.

→ Chinese 5 finger strategy

GAULS &
INDO-CHINA
war 1961

→ non-recognition of
McMohan & McDonald lines
during British era declaration

→ Aggressive expansion.

IMPACT

→ Current day unresolved
Border dispute.

→ discussions due to border
standstill after recent TAWANG
standoff.

→ created INDIA's informal attempt
via RIC summit, Mamallapuram
Summit.

→ implementing FDI policy that
restricts border country citizen
ownership (FDI policy 2019)

Wars have created long standing impact in
dynamics between both the countries that require
CONFIDENCE building, border resolution and
measures against terrorism for ASIAN CENTURY.

- Q.12 बंगाल के समेकन की प्रक्रिया, जो प्लासी के युद्ध के बाद शुरू हुई तथा बक्सर के युद्ध में समाप्त हुई। क्या आपको लगता है कि अंग्रेजों के लिए प्लासी की तुलना में बक्सर का युद्ध अधिक महत्वपूर्ण था?

(250 शब्दों में उत्तर दीजिए) 15 अंक

The process of consolidation of Bengal, which started after the Battle of Plassey culminated in the Battle of Buxar. Do you think the Battle of Buxar was more important for the British than Plassey?

(Answer in 250 words) 15 Marks

Battle of Plassey in 1757 and
Battle of Buxar are considered two
battles that SOLIDIFIED British from
TRADE Company to POLITICAL Power

BATTLE of PLASSEY to BATTLE of BUXAR

Battle of Plassey

→ it led to defeat of Siraj ud Daulah and establishing MIR Jafar as king

EEIC (east India Company)
got DIWANI rights over area
while the law & order remained
under king

this led to Robert Clive's policy
of TRADE strengthening through
Bengal Consolidation

as MIR Jafar could not provide adequate revenues he was replaced by son in law.



This led to creating EQUAL conditions for trade for british and local traders.

- Preferential trade of DASTAKS was being checked

- Bihar, Bengal region division was notified

↓
Awadh & Ruler of Bengal took on East India Company in BATTLE of Buxar which led to Robert Clive decimating forces of Awadh

↓
Finally leading to CONSOLIDATING Bengal as EEIC's power area.

→ 1. it led to establishing British military supremacy.

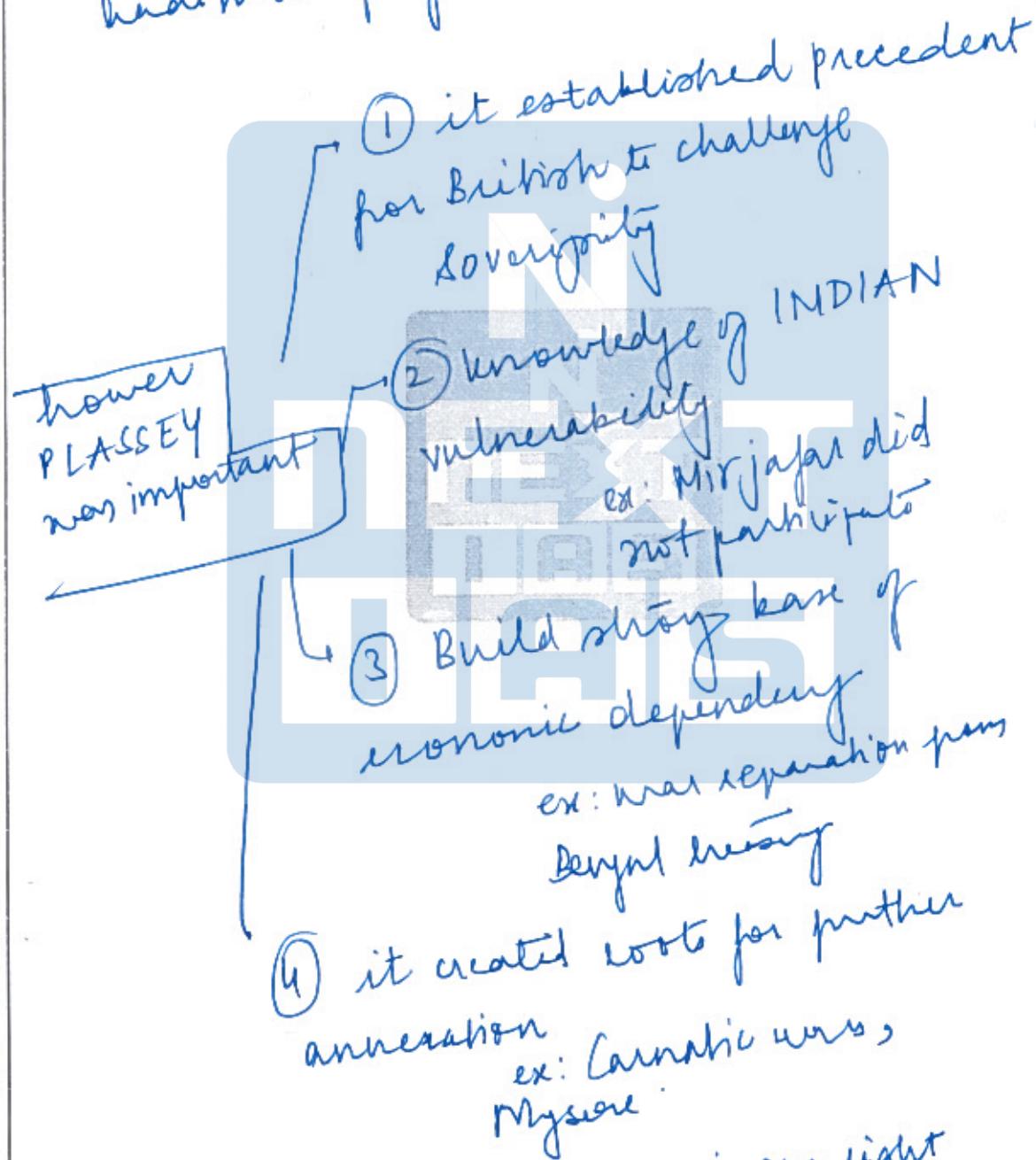
BATTLE of Buxar as more important

↳ 2. Awadh zone was also checked

↳ 3. it created grounds for all india empire

↳ 4. helped British check future deterrence.

- ⑤ it shaped British's policy of BUFFER states to protect Bengal
- ⑥ it created conditions for Bengal's monopoly in region.



Hence both are important in our sight
in establishing & crystallizing rule that took 43 trillion USD of INDIAN wealth in 150 years (Colonial loot)

- Q.13 संस्कृत साहित्य सामान्य रूप से और विशेषतः गुप्त काल में प्राचीन भारत के साहित्यिक इतिहास के लिए एक उच्च मानक स्थापित करता है। विवेचना कीजिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

Sanskrit literature in general and particularly in the Guptan age set a high watermark for the literary history of ancient India. Discuss. (Answer in 250 words) 15 Marks

SANSKRIT literature refers to both historic religious and classic literature that has provided rich history of Ancient India.

ex: Rig Veda as core ancient

* VEDIC SANSKRIT

SANSKRIT texts in general

↳ 1. include VEDAS from VEDIC age that are →
→ SMRITI tradition

ex: UNESCO intangible cultural heritage.

↳ 2. Vedangas such as Vyakarana, Jyotisha on codifying grammar, astronomy,

3. PURANAS that provide INDIAN mythology beliefs
ex: GARUDA purana.

↳ 4. Ramayana, Mahabharata as '2 epics' as AGE old heritage
ex: Gyanvapi mosque - prior temple in current time

↳ 5. UPANISHADS on kings
ex: Chandragupta II mentioned.

GUPTA age is watermark

- GUPTA age**
1. sanskrit patron by emper.
 2. HARISENA's maya
prashasti on SANSKRIT
geetadeer.
 3. NAVARATNAS in court
of Chandragupta Vikramaditya
in: Kalidasa.
 4. Kalidasa's works are
HIBH watermark.
 - Poems such as RITU Samhara.
 - PLAYS such as Abhignan
Shakuntalam, Vikramorvashiyam.
 5. spread of Sanskrit through
Numismatics, inscriptions.
 6. it also led to CODIFICATION
of many sanskrit texts such as
UPANISHADS, secular texts
ex: MANU smriti codification
to gupta era.

However
LITERATURE
history of
ANCIENT India

Sanskrit along with other languages created
COMPOSITE watermark of ANCIENT
Indian literature.

Buddhist texts in Pali

ex: Tripitaka.

Jain texts in Prakrit,
Vallabhi dialect

ex: Jain agama literature.

Sangam literature down south
is important source

ex: ILANGODIGAL'S
SILPADIKARAM

Thiruvalluvar's Tirukkural.

Prakrit was language of people
and was most authentic source.

SANSKRIT was elite language

ex: SATAVAHANA considered

Prakrit as official language

HALA's GATASAPTARI is an example.

- Q.14** महासागरीय नितल का विन्यास उन भूगर्भीय प्रक्रियाओं के बारे में आवश्यक जानकारी प्रदान करता है जिन्होंने पृथ्वी की सतह को आकार दिया है। महासागरीय नितल की प्रमुख विशेषताओं और समुद्र विज्ञान के अध्ययन में उनके महत्व की चर्चा कीजिए।

(250 शब्दों में उत्तर दीजिए) 15 अंक

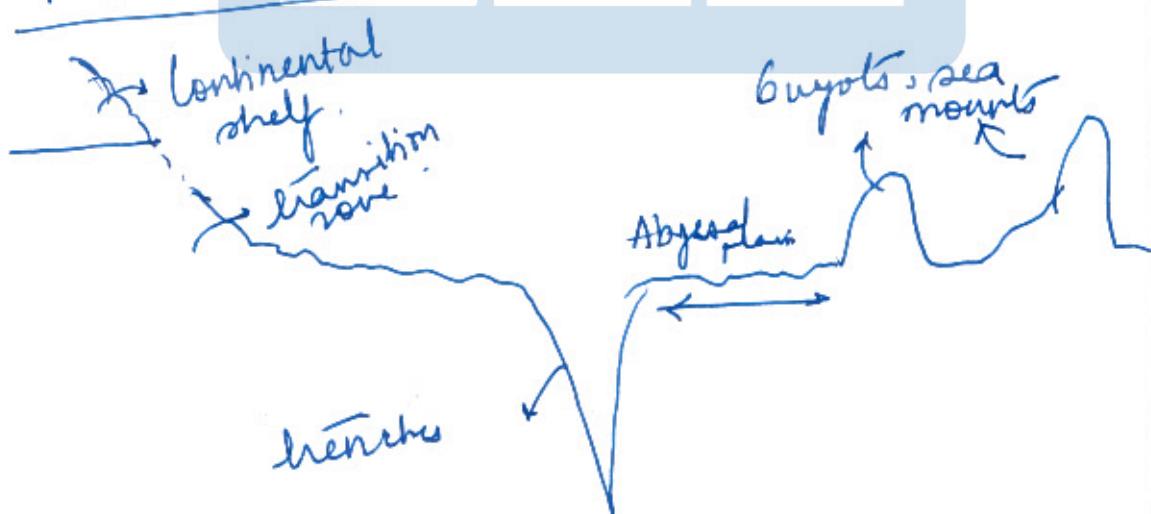
The configuration of the ocean floor provides essential information about the geological processes that have shaped the Earth's surface. Discuss the major features of the ocean floor and their significance in the study of oceanography.

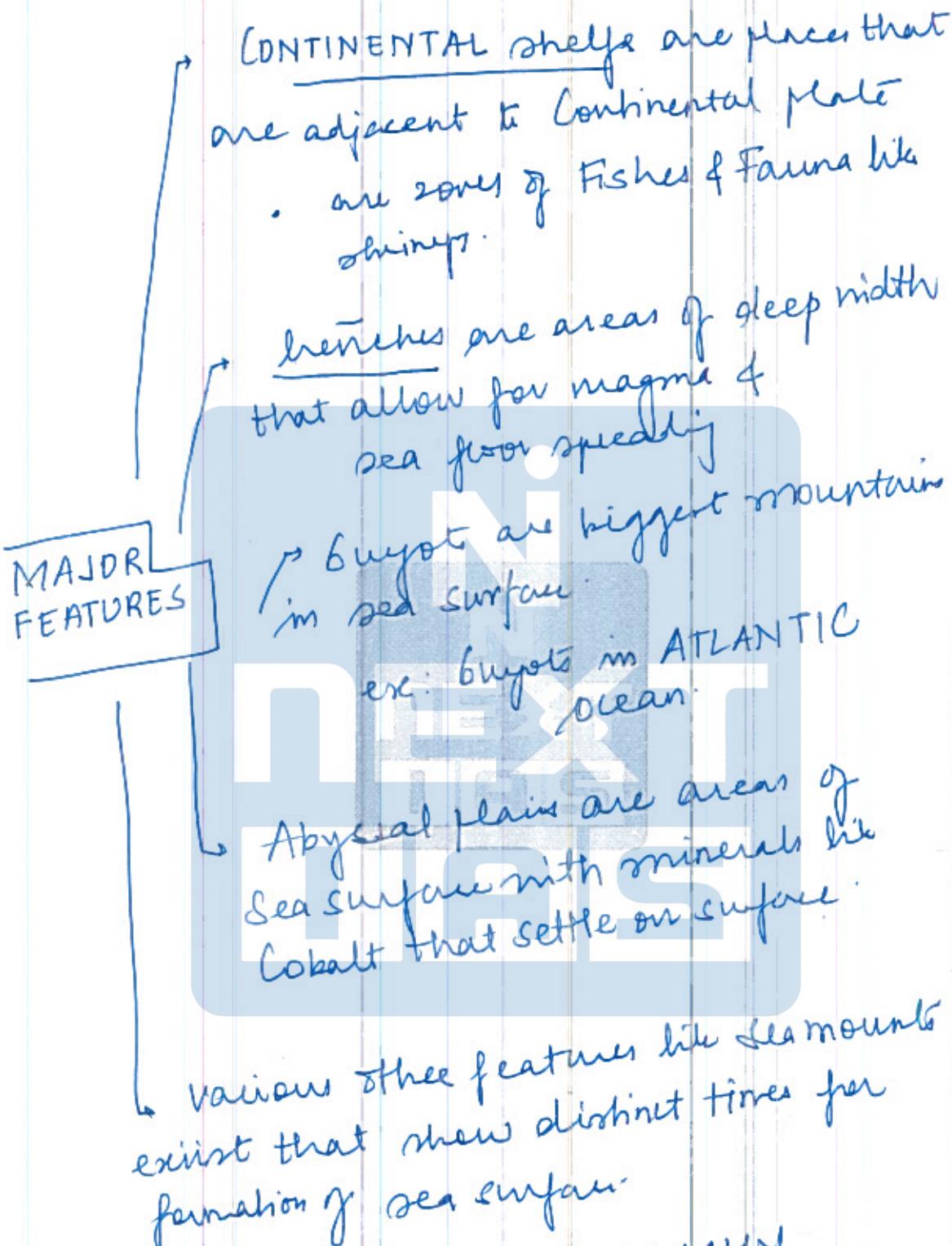
(Answer in 250 words) 15 Marks

Ocean floor configuration provides insights on formation & processes that shape Earth's crustal surface.

ex: CONVECTION currents theory on explaining Mid Atlantic ridge.

MAJOR FEATURES of OCEAN FLOOR:





SIGNIFICANCE in OCEANOGRAPHY

- ① help in understanding age of sea floor based on rock studying

② understand rate of sea floor spread

ex: Fastest in Pacific
Slowest in Indian Ocean

③ explain direction of movement
of sea floor wrt Plate tectonics

ex: ATLANTIC ridges used
in magnetic study

④ explain role of mineral formation
ex: Deep floor sulphides

⑤ basis to study Ocean tectonics
ex: events of TSUNAMIdikes seismic
activity

⑥ strengthen understanding OCEAN
biology ex: INDIA's Samudrajan
mission

hence various steps can help enhance
INDIA's studies of INDIAN Ocean floor
in relation to SUSTAINABLE development
& energy security

- Q.15 दुर्लभ पृथ्वी तत्त्वों (दुर्लभ मूदा धातुएँ) की बढ़ती माँग के साथ, उनका वितरण वैश्विक अर्थव्यवस्था का एक महत्वपूर्ण पहलू बन गया है। वैश्विक स्तर पर दुर्लभ पृथ्वी तत्त्वों के वितरण, उनके उपयोग और उनके निष्कर्षण के पर्यावरणीय प्रभावों पर चर्चा कीजिए।

(250 शब्दों में उत्तर दीजिए) 15 अंक

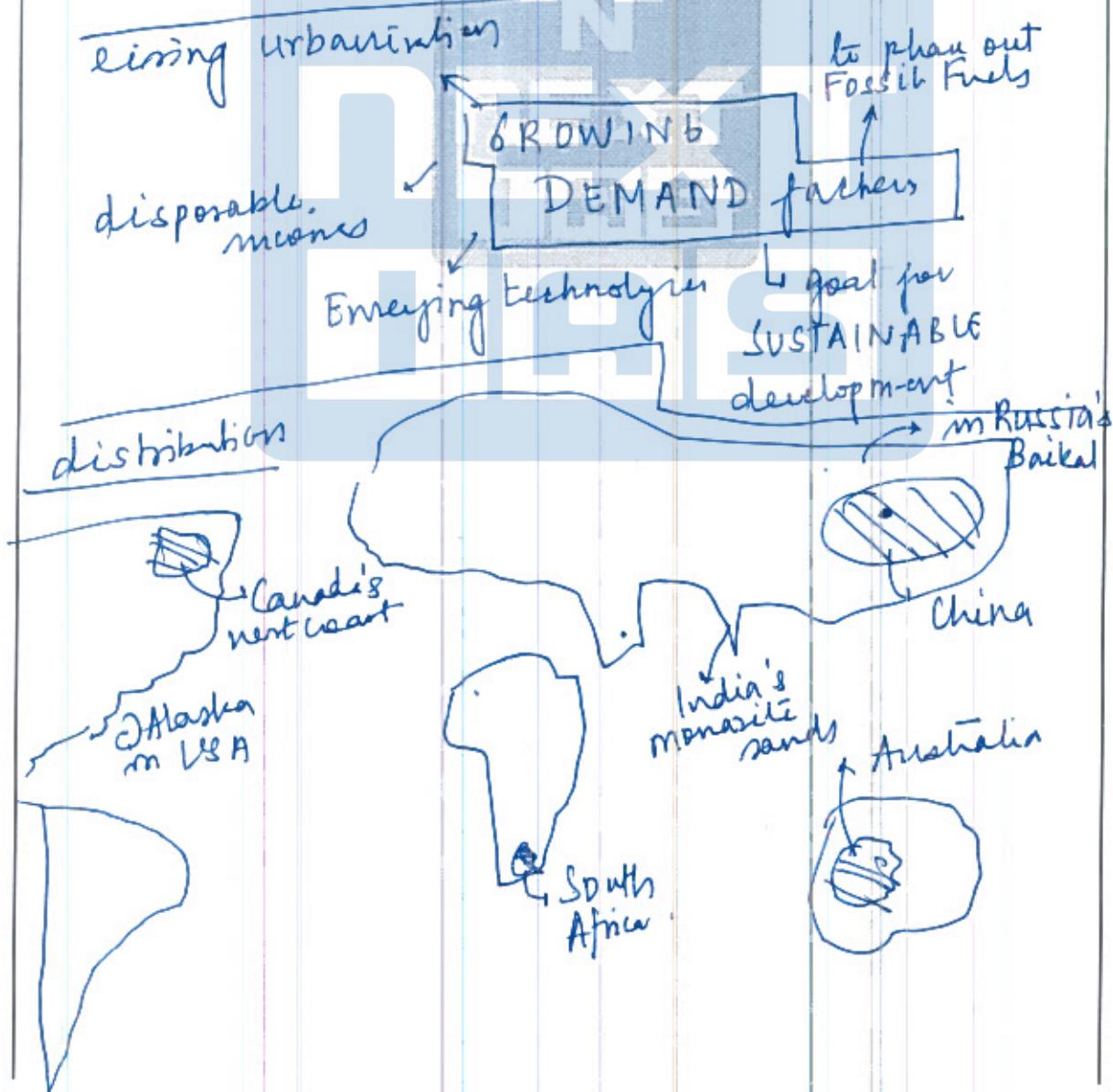
With the growing demand for rare earth elements, their distribution has become a critical aspect of the global economy. Discuss the distribution of rare earth elements across the world, their uses, and the environmental impact of their extraction.

(Answer in 250 words) 15 Marks

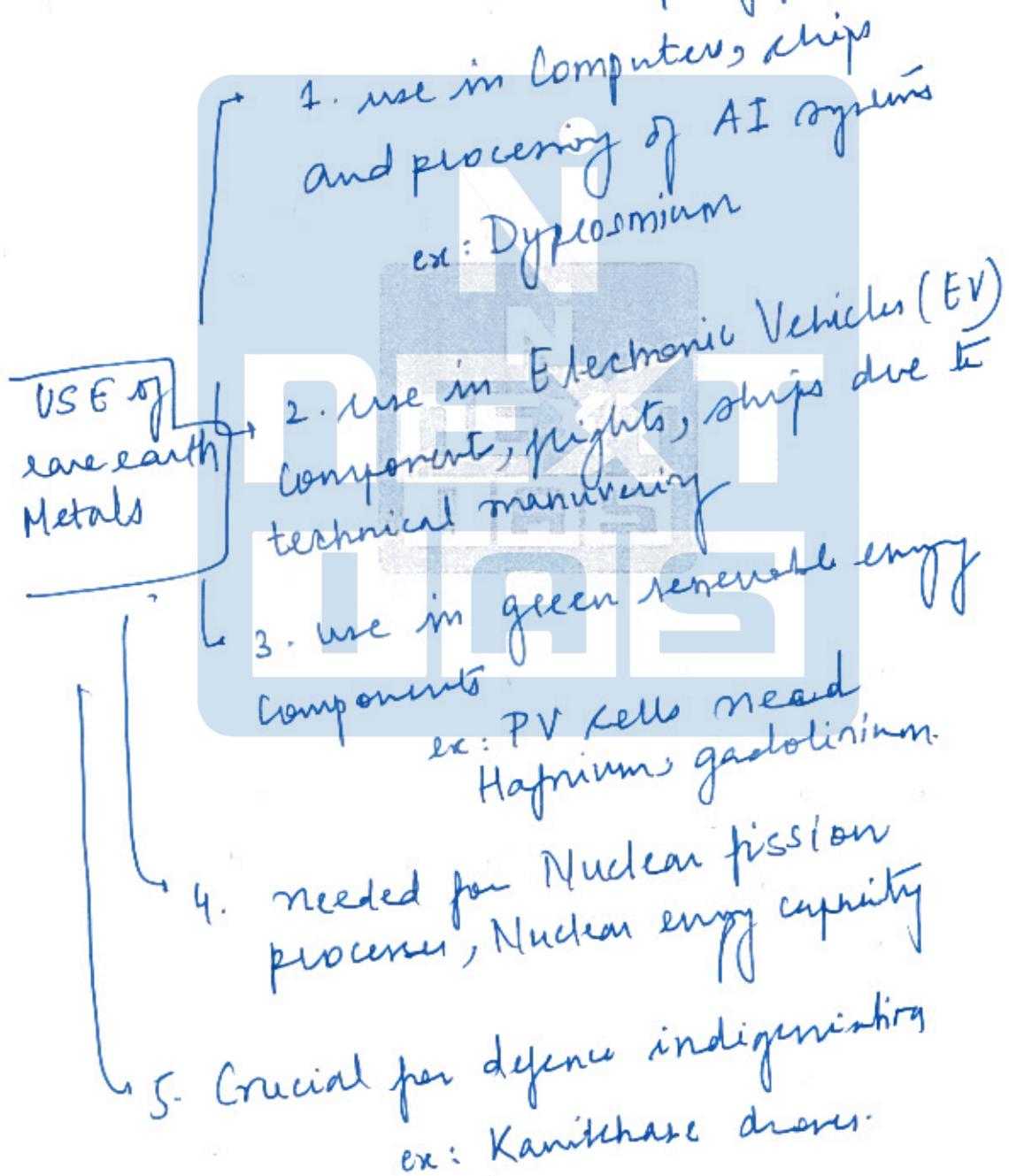
Rare earth elements (REE) refer to group of 16 elements or lanthanides that are considered crucial for INDUSTRIAL Revolution

L.D.

ex: Lanthanum, Praseodimium in Flight aircraft body
Samarium in Mobiles



- 80% production & 75% of REE reserves are concentrated in CHINA.
- major countries based on reserves are
 - CHINA
 - AUSTRALIA
 - USA & CANADA (based on capacity for mining)



- ENVIRONMENTAL impact of EXTRACTION
- 1. create zones of LAND pollution and soil pollution
ex: Heavy metal leaching
 - 2. highly CAPITAL intensive & cause Green house gas emission
ex: China uses 20-1.6 Tb t REE extraction (UNEP Adaptation report)
 - 3. create Water contamination
ex: Arsenic, Fluorides, Iron contamination
 - 4. create flora fauna habitat destruction
ex: migrating birds
 - 5. eutrophication of wetlands
 - 6. deep sea mining can lead to coral bleaching & fauna impact for Molluscs etc.

hence, SUSTAINABLE REE mining, diversification of supply chain, strengthen R&D are important for India's future energy security.

- Q.16 पहाड़ी राज्यों में पर्यटन, इस क्षेत्र की पारिस्थितिक वहन क्षमता से अधिक हो जाने का खतरा है। इस प्रवृत्ति के लिए योगदान करने वाले कारकों का विश्लेषण कीजिए और इस घटना के रांभापित पर्यावरणीय प्रभावों का मूल्यांकन कीजिए। इन राज्यों में धारणीय पर्यटन को सुनिश्चित करने के लिए क्या उपाय किए जा सकते हैं?

(250 शब्दों में उत्तर दीजिए) 15 अंक

Tourism in the hilly states is threatening to exceed the ecological carrying capacity of the region. Analyze the factors contributing to this trend and evaluate the potential Environmental impacts of this phenomenon. What measures can be taken to ensure sustainable tourism in these states?

(Answer in 250 words) 15 Marks

Tourism in Indian hilly states is above carrying capacity of region creating UNSUSTAINABILITY as per recent report on Ladakh plastic waste accumulation

- FACTORS for unsustainable tourism
- 1. rise in consumption drives economy
 - 2. rising demand for Tourism due to Work from home, rising disposable incomes etc.
 - 3. Urbanization, urban heat island effect are leading to seasonal vacation to Hill states ex: JAMMU & Kashmir 200%↑ in Tourism post 2019.
 - 4. cheaper alternative to Foreign tourism.

5. lack of capacity for SUSTAINABLE tourism at hill states
ex: PAPER bags, bamboo hats
6. creation of incentives for SWADESH dashan & impact of large youth population.
- POTENTIAL ENVIRONMENTAL IMPACT
- 1. Rising plastic & micro plastic pollution in Hill states
ex: PLASTIC wall in Mussoorie
 - 2. JOSHIMATH land subsidence linked to cultural tourism to Rudraprayag.
 - 3. Creating threat for FLORA & FAUNA.
ex: SNOWLEOPARD extinction towards
 - 4. creates ^{safety} issue for local population safety
ex: High seismic zone of hill states
 - 5. leading to Hazard Vulnerability
ex: Fires in Shimla.

6. also creates issues of Floods from glacial lake outbursts due to wetland encroachments ex: Uttarakhand 2013.

- SUSTAINABLE TOURISM in STATES**
- 1. Built on lines of SHIMLA declaration.
 - 2. Capacity building of tourist guides.
 - 3. Creating Garhwal Samiti like setup to issue Tourist permit.
 - 4. Online INNER line permit mechanism for North eastern states
 - 5. Promote ODDP - sustainable products ex: recycled plastic in Manipur toys
 - 6. NATIONAL Bamboo mission, lavender revolution for sustained livelihoods.
hence tourism must utilize holistic enhancement for sustained incomes & tourism model per Atmanirbhar Bharat

- Q.17 भारतीय मानसून विभिन्न जलवायिक कारकों से प्रभावित एक जटिल परिघटना है। भारत में मानसूनी वर्षा की तीव्रता और वितरण के निर्धारण में महासागरीय और वायुमंडलीय कारकों की भूमिका का आलोचनात्मक परीक्षण कीजिए।
(250 शब्दों में उत्तर दीजिए) 15 अंक

The Indian monsoon is a complex phenomenon influenced by various climatic factors. Critically examine the role of oceanic and atmospheric factors in determining the intensity and distribution of monsoon rainfall in India.
(Answer in 250 words) 15 Marks

INDIAN monsoon or SOUTH ^{west}_{north} monsoon winds are
Rain bearing seasonal reversal of wind
bringing rain into INDIAN subcontinent
ex: SW monsoon contributes to 76%
of INDIA's rainfall
NE monsoon for around 23%.

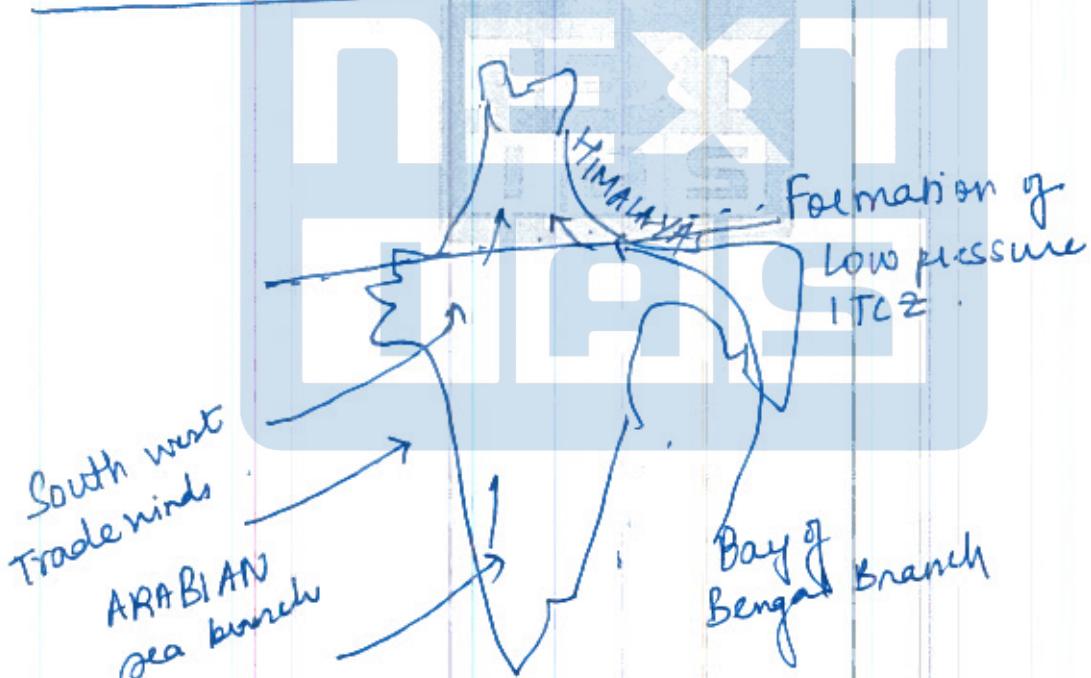


Fig: Rain in INDIA during
June & July months

Role of
OCEAN in
Monsoon

1. Ocean phenomenon such as El Nino impacts rainfall intensity
ex: La Nina associated with above average rains in INDIA.

2. similarly INDIAN ocean dipole impacts rain.
example: weak ocean dipole & triple dip La nina can create drought like condition on west coast.

3. Madden Julian oscillation impacts onset of monsoon in INDIA.

4. Ocean currents impact frequency of rains in INDIA.
ex: warm Kuroshio current on South African coast can create stronger cyclones in Bay of Bengal.

5. Phenomenon of cyclones creates rainfall break of monsoon

ex: Vajra cyclone in delay on onset of south west monsoon.

Role of Atmosphere factors in monsoon

- 1. Westerly jetstream creates branch that leads to High pressure zone in Tibet highlighting
- 2. Easterly jetstream presence along INDIA creates distinction of rainfall.
- 3. Somali jet stream is responsible for Western coastal rains
ex: Western ghats
>200 mm rains.
- 4. Creation of heat domes or low pressure areas can lead to loss of precipitation
ex: HEAT waves even in monsoon months in North.
- 5. Concentration of green house gases leading to Acid rains in UTIES
- 6. Urban Heat Island effect due to green house gases in atmosphere of cities-

Thus, both factors must be studied for enhancing INDIA's climate prediction models for CLIMATE smart & resilient future.

Q.18 हमारे समाज में परंपराएँ परिवर्तन को क्यों वाधित करती हैं? प्राचीन रीति-रिवाजों पर आधारित मूल्य-मान्यताओं के विरुद्ध सामाजिक विधान किस सीमा तक सहायक हो सकते हैं? (250 शब्दों में उत्तर दीजिए) 15 अंक

Why do traditions in our society impede change? To what extent can social legislation be instrumental against old customary practices?
(Answer in 250 words) 15 Marks

Traditions refer to age old practices followed by society based on age old religion, social & cultural beliefs.

ex: SABARIMALA deeksha as main tradition

1. They are passed down as cultural legacy

ex: visits to CHARDHAM.

Reasons why Tradition impede change

2. They have historical precedents
ex: ritual of MADE snake in Kukke temples derogatory

3. They are in INDIVIDUAL'S psyche as cultural identity

ex: JAIKATTU as TAMILIAN sentiment [continuation despite PETA calls for ban]

4. Beliefs of majority tied to it

ex: tradition of temple entry banned
in Shani Shingnapur.

5. tendency of religious conservatism and
fundamentalism impede change.
ex: Madrasa school shutdown &
protests in Assam.

6. this is basis for Uniform Civil Code at
new startet. (Art 44)

In this context, role of social legislations:

- 1) Law on abolition of Sati led to
widescale recognition to issue.
- 2) Law on widow remarriage, 1856 led to
support & deterrence for social ostracisation
- 3) similarly, Sharda Act, Behramji Malabari
age of consent act created basis for Child
marriage as "Anomaly" from acceptance.
- 4) in Post independent era, law on Dowry
Prohibition to limit women commodification
- 5) Vishaka Guidelines + POSH Act 2014 to
reverse trend of workplace as "Men space"

- 6) criminalization of instant wife talay (Shayra Banu case)

However, social legislations are only one step for change as :

- 1) child marriages continue - $\frac{1}{3}$ rd child bride from India (UNICEF)
ex: Assam arrests
- 2) Dowry deaths despite literacy in Kerala
- 3) Continuation of caste violence increase by 7% despite Protection of civil rights

Art

- 4) case of Sabarimala counted by women depending non entry [court transferred to Constitution bench]
- 5) recent SAME sex marriage legalization opposed by conservative Hindu & muslim groups

thus, there is need for

- 1) raise public awareness and acceptance of Idea ex: GANDHI's ashram method
- 2) value education of society
- 3) strengthen public support for CONSTITUTION morality (SAMYIDHAN divine)

hence CONSTITUTIONAL values must ensure gradual percolation & acceptance of Social change at grassroots level.

- Q.19 मलिन बस्तियाँ ऐसी 'समस्याएँ' नहीं हैं जिनका 'समाधान' किया जाना है – बल्कि वार्तव में, ये बुनियादी ढाँचे के प्रावधान और सामाजिक-आर्थिक मुद्दों को शामिल करने वाली असंतुलित और स्वास्थपरक नगरीय नीतियों का एक परिणाम हैं। विश्लेषण कीजिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

Slums are not 'problems' that have to be 'solved' – but are indeed a result of lopsided and vested urban policies covering infrastructure provision and socio-economic issues. Analyse.

(Answer in 250 words) 15 Marks

SLUMS refer to sub-human conditions of living formed in fringes of urban areas which are reason for economic functioning of cities.

ex: SLUMS show vast occurrence of Poverty in ISLANDS of Prosperity

→ 1. Urban land is highly costly creating Urban GENTRIFICATION

→ 2. This is also heralded by Vacant lands, apartments creating cycle of LAND value appreciation

ex: Toronto tax on Vacant apartments

→ 3. This creates formation of Low cost living in context of INFLATION

ex: Urban CPI is 5.9% while rural CPI is 3.8% (2023)

→ 4. They are created near areas of unskilled and cheap workforce

SLUMS are result of Vested Urban Policies

ex: Formation of Dharavi

5. also due to lack of government policies
on GOVERNMENT land

ex: Delhi demolition drive
near Anub minar.

6. it is also due to lack of cheap transport
creating need for slum like settlements
inside city

SLUMS
as result
of vested policy
in Socio-
economic
issues

- + 1. Slums are signal of PUSH migration from villages
ex: lack of basic health
and education in villages
- L 2. they provide anonymity to
SC/ST from social discrimination
ex: 90% sanitation workers are
SC as per Safai Karmchari
Andolan
- 3. they are centre for women to
fight FEMINIZATION of poverty
ex: women in care economy,
Pink collar jobs.

4. lack of employment guarantee while
rural areas ex: Rajasthan launched Indira
Garibi urban employment guarantee
scheme (IGUEGS)

5. Slums are sites of Multi dimensional poverty

ex: ULB making no provision as Slums are of migrant workers -

→ 1. PM Awas Yojna (Urban) :
SLUM in situ development for PUKKA houses.

2. Slum re-development projects for enhanced Ease of living under SMART cities mission
ex: NABPRUR

But, SLUMS

are a concern & need
RESOLUTION

3. strengthening food security via ONDRSC

4. strengthening opportunities with DAY- National urban livelihood mission, PM Janidhi for street vendors -

Slips needed : 1) government policy on regularization of slums & notifying vacant area .

2) ULB capacity for urban planning

3) rehabilitation in case of demolition .

4) Kerala's Changali, Gujarat's model of slum children education monitoring .

Holistic slum review can help in achieving agenda

of UN Habitat & SDG 12 .

- Q.20 साम्राज्यिकता आर्थिक अभाव से बल प्राप्त करती है, और सामाजिक बहिष्कार के वातावरण में फलती-फूलती है। जिससे असंतोष और विभाजन के लिए उर्वर भूमि तैयार होती है। टिप्पणी कीजिए।

(250 शब्दों में उत्तर दीजिए) 15 अंक

Communalism gains strength from economic deprivation, and thrives in environments of social exclusion, creating fertile ground for discontent and division. Comment.

(Answer in 250 words) 15 Marks

Communalism refers to religious deprivation and sense of otherness creating multidimensional conflict

ex: NVH protests in Haryana & Bihar post

1. Communalism builds on "OTHERNESS"

ex: Muzaffarnagar riots

2. "RELATIVE deprivation"²²
is strong factor for seeing distinction on basis of religion

ex: riots in Delhi (2020)

COMMUNALISM
thrives in
Economic
deprivation

3. Lack of income, opportunities
and literacy impact feeling of
Communal mentality

ex: Ranganath Mishra Committee on
HINDU-MUSLIM unity in high
HDI Kerala-

4. Social studies on Hyderabad, Bhopal, Lucknow show roots of riots were in OLD cities where there were high INEQUALITY and poverty, as per Sachar Committee.

Communalism
thrives in
SOCIAL exclusion

- 1. Created in GHETTOIZATION and urban Slum areas.
- 2. Lack of education opportunity ex: ANTI-HIJAB protests and ban in Karnataka PUC schools.
- 3. Lack of employment opportunities in proportion to Population ex: Sachar Committee highlighted that 2% muslims in population of 18% in INDIA.

in CIVIL service

- 4. Lack of social security and protection marginalises poor

ex: places such as NAI Roshan, Criminalisation of triple talaq

in this CONTEXT, it creates grounds for DISCONTENT, DIVISION :

- 1) British era DIVIDE & RULE led to PARTITION & 2 NATION theory.

2. Politicization of religion has led to Ram Janma Bhoomi, ^{etc} Bodhra riot that impacted India's Image.

3. recent Nuh clashes on Mevati muslim safety has been raised in LS

4. it creates grounds for radicalization

ex: Kerala muslim women in ISIS, Afghanistan prisoners

5. it also is security threat

ex: JAMMU infiltration, lone wolf attacks.

Hence, Communalism must be tackled in

1) strengthening INDIAN secularism
66 SARVADHARMA Samabhaava²²

2) Sachar Committee recommended EQUAL Opportunities Commission

3) Schemes like Ek Bharat Shresht Bharat for NATIONAL identity crystallisation

4) de-radicalisation and initiatives such as Op Sadbhavana in J&K by army

5) EC to control hate speeches.

Hence multi pronged steps can sustain INDIAN heritage of UNITY in Diversity

Space for Rough Work

Candidates must not
write on this margin

