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NEXT IAS

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(To be filled by candidate)

Name of Candidate : RAVI MEENA

NEXT IAS Roll No.: NIAS 23 0 0 18260 Date of Examination : 19.07.2023

Exam Centre : Old Rajinder Nagar ☐ Bhopal ☐ Online ☑

Test Code : TC039 Program : FLT ☐ FLT+ ☑

MAIN TEST SERIES 2023
(FULL LENGTH TEST-5)

GENERAL INSTRUCTIONS

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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. : .....

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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

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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.
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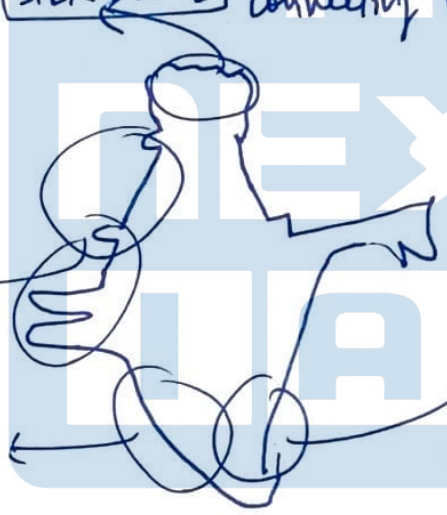
1. भारत को विदेशों से जोड़ने वाले प्राचीन व्यापारिक मार्गों ने संस्कृति के आदान–प्रदान और प्रसार में किस प्रकार योगदान दिया? (150 शब्दों में उत्तर दीजिए) 10 अंक

How did the ancient trade routes connecting India to foreign countries contribute to the exchange and dissemination of culture? (Answer in 150 words) 10 marks.

Trade and commerce from India to Foreign countries have always contributed not only in Economic sphere but also to exchange and dissemination of culture

ANCIENT TRADE ROUTE

2 SILK ROUTE connecting to China & central Asia



1. Harappa to MESOPOTIMIA

4. Maritime route during colonial times.

3 Sea route during chola times to South Asian countries

CONTRIBUTION TO EXCHANGE and DISSEMINATION OF CULTURE

1. Land route to various Middle East & European countries resulted in Greek–Roman influence on Gandhara Art.

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2. Temple style in Kashmir are mix of chines, Indian and central Asia influence as it is major junction of silk route.

3. Chola voyages in South East Asian countries resulted in dissemination of Hinduism in these countries (e.g) Lakshmi Figure on Indonesian currency

4. Spread of Buddhism to other Asian countries during time of Ashoka and Kanishka

5. Trade of Harappa with Egyptian, so the exchange reflects in burial practices in both cultures

6. Introduction of potato, maize, Tobacco with arrival of Portuguese in India as well as plantation crop.

Hence it can said that it resulted in intermingling of different culture which is also relevant today as it enhances soft power and National comphrensive power of India at global level.

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2. भारत छोड़ो आंदोलन वर्ग विभाजन से परे एक जन आंदोलन था, लेकिन यह महिला नेतृत्व ही था जिसने स्पष्ट छाप छोड़ी। विश्लेषण कीजिए। (150 शब्दों में उत्तर दीजिए) 10 अंक

The Quit India movement was a people's movement cutting across the class divides but it was the women's leadership that left a clear mark. Analyse. (Answer in 150 words) 10 marks.

The Motto of 'DO or Die' given by Mahatma Gandhi on 8th August, 1942 inspired people to make it People's Movement as it was made leaderless with arrest of all prominent leader.

People's Movement cutting across class Divides

1. Setting up of Parallel Government
   - BALIA
   - TAMLUK
   - SATARA
2. Huge participation from workers, students, peasants.
3. Even officials of Government serving at lower level provided secret info to people
4. Refusal to give information in villages to Police about whereabout of Movement's Follower.
5. underground Activity

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IT WAS WOMEN'S LEADERSHIP that left a clear mark.

1. Underground Activity by women like leader like Aruna Asaf Ali
2. Setting up of underground ~~radio~~ / secret Radio by USHA MEHTA to convey relevant information.
3. Providing support in form of hiding followers of movement, finances through their personal donation [like Jewellery]
4. Almost equal participation was witnessed.
5. Denial for paying land Taxes by women in Rural Areas.

Quit India Movement changed Strategy from Struggle-Truce-Struggle Strategy to Struggle-victory resulting in Azad for India in which women were equal Partner.

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3. 'स्वतंत्रता के पश्चात् के भारत की पहचान विज्ञान और प्रौद्योगिकी के क्षेत्र में इसकी उल्लेखनीय प्रगति रही है'। इस काल में हुए वैज्ञानिक विकास ने भारत को किस हद तक आधुनिकता के पथ पर अग्रसर किया?

(150 शब्दों में उत्तर दीजिए) 10 अंक

'The hallmark of post-Independent India has been its remarkable strides in science and technology'. To what extent did scientific development during this period put India on the path of modernity?

(Answer in 150 words) 10 marks

Rapid development in science & Technology post-independent India has made India's leading countries in various sphere of science.

Remarkable Strides in Science & Technology

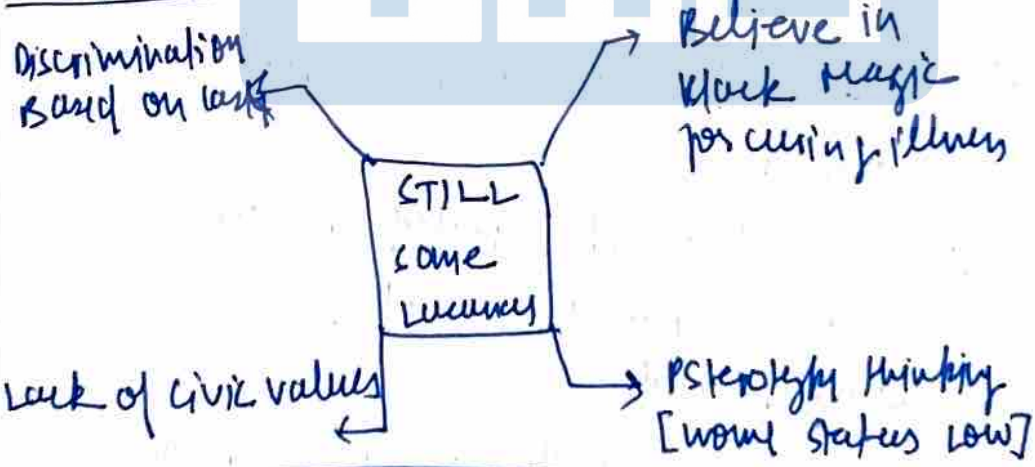
1. Atomic Programme: Setting up of Nuclear Plant, 3 stage Nuclear Programme conceptualised by Homi Bhabha.
2. Space Programme:- Leap Forward development with reaching on Mars & Moon to having own regional satellite system.
3. Setting up of Institutions like IIT, IIIT, NITs, IISER etc.
4. Biotechnological research & Development
   ↳ Pharmacy of world.

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Put India on path of Modernity

1. Scientific Temper in society – least vaccine Hesitant country (e.g.) Highest COVID vaccine dose administered in India.
2. Energy security – through Nuclear Energy.
3. Women's Empowerment – through increased participation in STEM [Science, Technology, Engineering, Mathematics] schemes like KIRAN.
4. Intermingling of Foreign Ideas with NRIs Association.
5. Self-sufficient & self-Dependent — Atmanirbhar



We have come long way Forward with help of Science & Technology, it need to be taken further in this Amrit Kaal period to ensure complete modernization in New India @ 2047.

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4. अन्य क्षेत्रों में जल संकट की समस्या को हल करने के लिए नदियों को आपस में जोड़ने की व्यवहार्यता पर चर्चा कीजिए। (150 शब्दों में उत्तर दीजिए) 10 अंक

Discuss the feasibility of Interlinking rivers to resolve the issue of water stress in other regions. (Answer in 150 words) 10 marks

water stress is a situation where availability of water is lesser than the required amount of water of Human & Ecological need.

Interlinking of Rivers refers to transfer of surplus water from surplus Basin to deficit Basin to resolve water stress.

Feasibility of Interlinking Rivers

(A) Resolving issue of water stress in other regions

(1) Meets the demand of people suffering from water crisis
   - e.g. Ken-Betwa Link created to overcome Drought situation in Bundelkhand.

(2) Dual objectives – controlling Flood in surplus Basin and addressing Drought in other areas.

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③ Increased Agricultural Productivity through assured Irrigation.

④ suggested and supported by various scholar and Institutions.

Concerns Associated

1. Inter-State issue for transferring water
2. Ecological issues - Threat to Biodiversity in supplies region [due to decreased supply] + introduction of invasive species in new river.
3. Structural issue - Peninsular India is situated at height which requires huge power to transform the same
4. Unintended consequences [climate change etc]
5. Lack of sufficient water in Northern River during Dry season.
6. High cost factor

Way Forward

- Building of small check dam
- Increased emphasis on increasing water usage efficiency.
- should be taken as last resort
- Explore other techniques, ex: Rain water Harvesting & micro Irrigation

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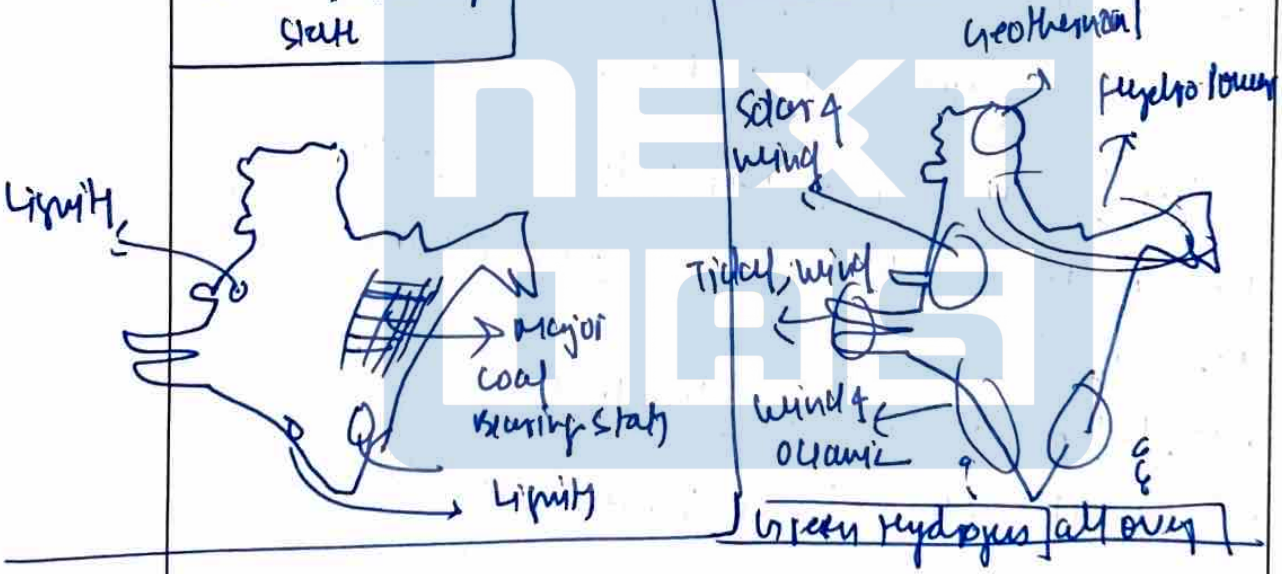
5. कोयला आधारित विद्युत संयंत्रों से नवीकरणीय ऊर्जा उत्पादन की ओर गमन का संरचनात्मक परिवर्तन कोयला समृद्ध राज्यों में मानव विकास को कैसे प्रभावित करेगा? (150 शब्दों में उत्तर दीजिए) 10 अंक

How will the structural shift from coal-based power plants to renewable energy generation impact human development in coal-bearing states? (Answer in 150 words) 10 marks

To check climate change and reduce Green House Gas Emission, India adopted Panchamrit Principle to achieve Net Zero Neutrality by 2070 by shifting renewable Energy Generation.

- Coal Based Regions
- Coal-Bearing State

TYPES of renewable Energy in various Parts



Structural shift from Coal Based [currently around 60% of Energy] to renewable Energy

Positive Impact on human development

1. Low Land Requirement & Low Land Acquisition. Land Right of Tribals protected

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2. Low Level of Pollution with reduction coal mining — Good Health of people.
3. Will restrict Desertification in these state due to mining.
4. Promotion of Agricultural & other Activities in these Areas.

Negative Impact

1. Loss of Employment → Poverty → Demand ↓ → Lack of purchasing power. → vicious cycle of Poverty
2. Low capacity of state due to loss of revenue & Royalty.
3. under-utilisation of resources of these state and lack of infrastructure of potential for generation of renewable energy.
4. De-industrialisation, Flight of skilled workers etc.

WAY FORWARD

- Skill Bridging course of workforce
- Launch Green Technology mission [Alternate Employment]
- Set up Renewable Energy Plant
- use of District Mineral Fund

Shifting to Renewable Energy is single most for achieving SDG 7 [clean Energy] but transition should be gradual to maintain the balance between People and Planet.

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6. तापमान और वर्षण किस सीमा तक मृदा के गुणधर्मों को निर्धारित करने वाले सबसे महत्त्वपूर्ण कारक हैं?
(150 शब्दों में उत्तर दीजिए) 10 अंक

To what extent temperature and precipitation are the most important factors that determine soil properties?
(Answer in 150 words) 10 marks

Soil is the top layer of Earth Crust which sustains life over land.

~~Importance of Temperature~~

Determinant of soil Properties

(A) **Importance of Temperature**

(1.) It decides rate of decomposition of Parent Rock into fine grained soil

Example (i) Finely grained soil in Tropical Areas
(ii) Large Piece of soil in High Altitude Area due to low decomposition.

(2) Temperature determines Microorganism Activity and organic content of soil

(i) Low Microbial Activity in Tundra zone soil [Less productive

(3) Diurnal variation of Temperature result in higher weathering process & soil Formation.

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(B) **Importance of Precipitation**

(1) High rainfall in Tropical Rain Forest – Low Nutrients in soil as they are leached away

(2) Moisture content of soil which supports Plantation.

(3) Precipitation changes soil from red to yellow where iron content is more

But other Factors are also responsible

(1) Anthropocene Factor like Excessive Irrigation resulting soil Aridity due to capillary Action.

(2) Wind – Soil erosion & Deposition.

(3) Biodiversity also changes nature of soil

Soil is Most important Natural resource after water which needs to be protected & preserved. Soil Health Card, UN convention against Desertification's efforts are right step in this Direction

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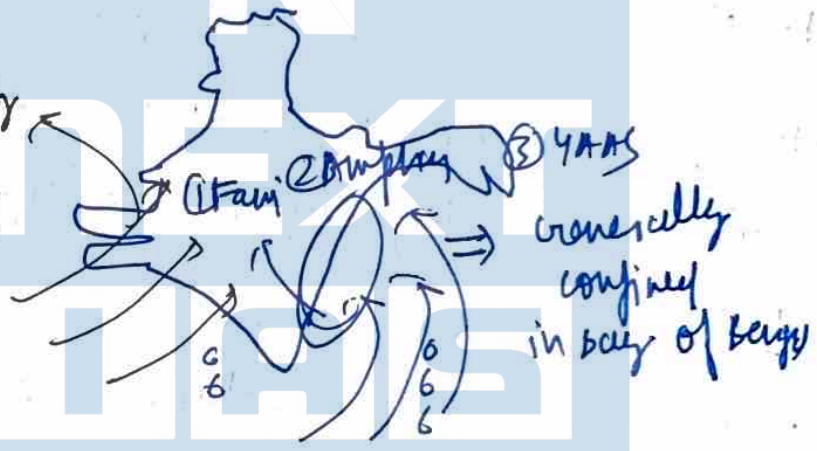
7. अरब सागर में प्रचंड और तीव्र चक्रवात एक नियमित घटना क्यों बनते जा रहे हैं? उदाहरणों सहित सिद्ध कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

Why are severe and intense cyclones becoming a regular phenomenon in the Arabian Sea? Substantiate with examples.
(Answer in 150 words) 10 marks

~~cyclones~~ Tropical cyclones are area of low pressure with heavy moisture content causing catastrophic rainfall in coastal Area.

TROPICAL CYCLONES IN INDIA

Increasing in Arabian Sea
1. Bi parjoy
2. Tauktae
recent Trend



⇒ Generally confined in bay of Bengal

Severe & Intense cyclones becoming regular Phenomenon in Arabian Sea

1. Increased temperature of Arabian Sea due to Global warming [relatively more heat compared to Bay of Bengal]

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2. Enclosed by landmass - further increasing temperature.

3. Lack of cooling effect due to low river drainage in Arabian sea.

4. Positive Indian Ocean Dipole [warmer than average sea surface Temperature]

⇒ These factor has resulted in emerging cyclone with super cyclonic speed like Bipar'joy, Tauktae, Nisarga etc.

WAY AHEAD

(1) NDMA guidelines should be followed
(2) Early warning system., Doppler weather Radar
(3) curb Global warming [Glasgow summit]
(4) preserve & use local knowledge.
(5) cyclone shelter Belt [Mangrove, coral reefs etc]

Tropic cyclone need to be addressed holistically so as to minimise their impact on coast community.

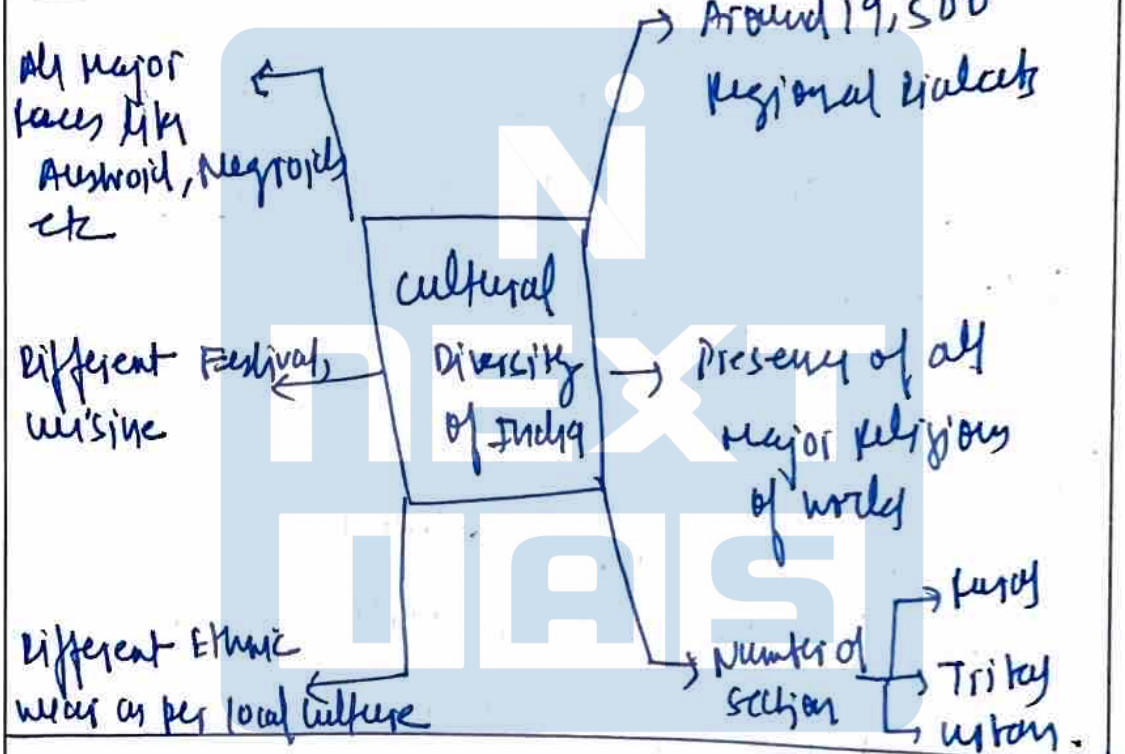
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8. भारत में सांस्कृतिक विविधता के संदर्भ में, क्या हम शेष भारत की तुलना में दक्षिणी राज्यों को विशिष्ट सांस्कृतिक इकाइयाँ मान सकते हैं? अपने दृष्टिकोण के औचित्य को सिद्ध कीजिए। (150 शब्दों में उत्तर दीजिए) 10 अंक

In the context of cultural diversity in India, can we consider Southern states as distinct cultural units in comparison to the rest of India? Substantiate your view. (Answer in 150 words) 10 marks.

India is multicultural society where different culture live in peaceful co-existence. [salad-bowl Theory].



NO we cannot consider southern states as distinct cultural unit

(A) Differences among southern states themselves

(1) Language — Kannad, Tamil, Telugu, Malayalam different major languages.

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(2) cuisine & culture of Andhra is different from Kerala

(3) Different type of cinema - Malayalam cinema, Tamil cinema, Kannada cinema etc.

(4) Different Pradies as per different beliefs.

(B) Various similarities with rest of India

(1) Festival (eg) Pongal in ~~South~~ south ; Makar sankranti in North

(2) Sanskrit as matter of all Regional Language

(3) Karnataka culture more common Maharashtra, Similarly Andhra with ORISSA

(4) same system of polity - Parliamentary Form

(5) All India Services.

Hence it can be said that India has diverse culture where "Kosh Kosh par Badli Paani, Chaar Kosh pe Badli Paani" - at every mile change water, whereas every 4 mile change Language. But this diversity is bounded by concept of EK Bharat shreshta Bharat.

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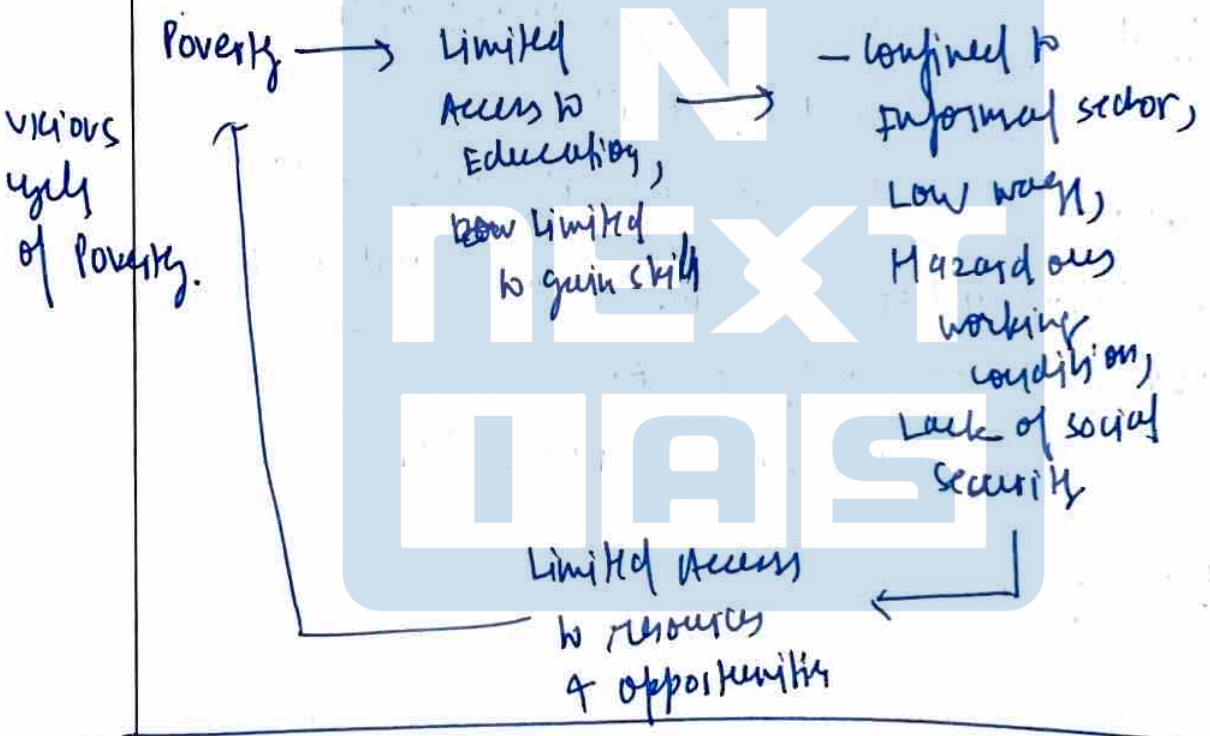
9. गरीबी और जनसंख्या वृद्धि एक दुष्चक्र में फँसी हुई है, जहाँ गरीबी व्यक्तियों की इस चक्र से मुक्त होने की क्षमता को सीमित करती है, जबकि जनसंख्या वृद्धि संसाधनों पर दबाव डालती है। विवेचन कीजिए।

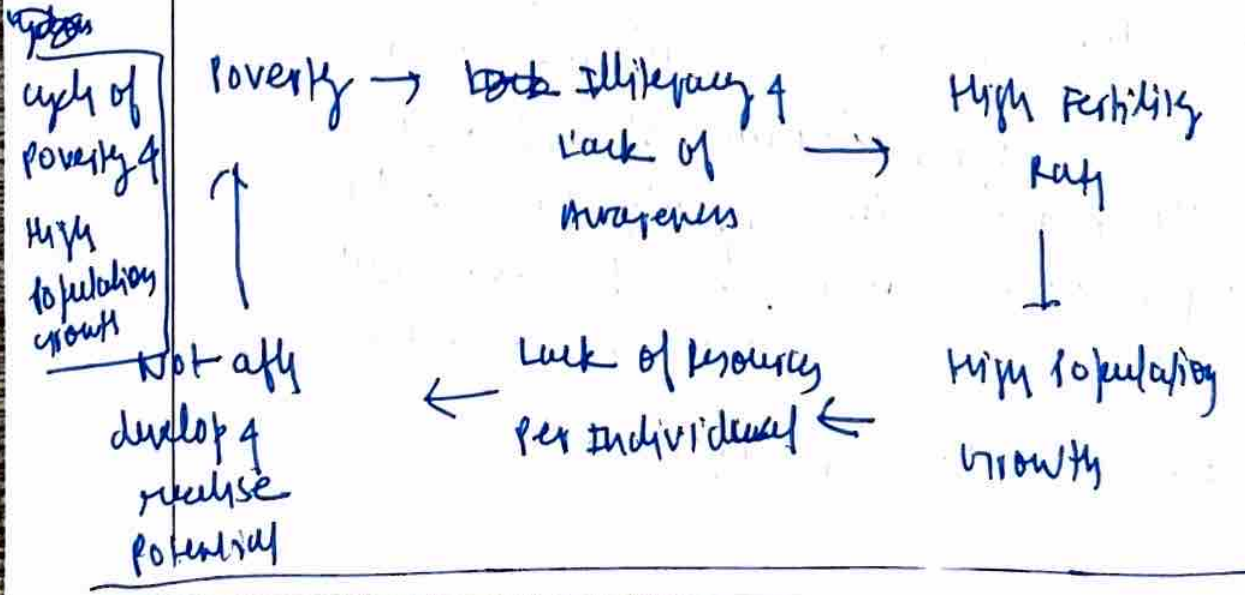
(150 शब्दों में उत्तर दीजिए) 10 अंक

Poverty and population growth are locked in a vicious cycle, where poverty restricts individuals' ability to break free from the cycle, while population growth strains resources. Discuss.

(Answer in 150 words) 10 marks.

Poverty is state of individual where he lack access to opportunities and resources to realise potential and livi with dignity.





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↳ It can be seen that due to poverty an individual and his children are trapped in Inter-generational & Intra-generational poverty.

Measures needed

(1) State support – ☞ Creating Equality of opportunity

Eg:- scholarship, Free training

PMGKY

(2) Resource ~~Redistributive~~ Redistribution.

(3) Inclusive Growth – Sabka Saath Sabka Vikaas.

(4) Social Security measures.

(5) Family Planning Programme – "Hum Do Hamare Do"
– Promotion of providing contraceptive

Eradicating Poverty & Achieving stabilisation in population Growth rate will help in realising SDG 1 [No Poverty], SDG 2 [Zero Hunger] and SDG 10 [Reducing Inequality]

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10. शिक्षा के अंतर्राष्ट्रीयकरण में भारत के पास एक समृद्ध विरासत है। इस संदर्भ में 'शिक्षा के अंतर्राष्ट्रीयकरण' पर हाल ही में दिया जा रहा बल समाज को कैसे प्रभावित करेगा और सांस्कृतिक आदान–प्रदान को कैसे बढ़ावा देगा?

(150 शब्दों में उत्तर दीजिए) 10 अंक

India has a rich heritage in the internationalization of education. In this context how will the recent push for the 'internationalization of education' impact society and foster cultural exchange?

(Answer in 150 words) 10 marks.

India was centre of International Education during Ancient – Educating the world.

Rich Heritage in Internationalization Education



The recent push for 'Internalization of Education' by New Education Policy, 2020 is right step to revive the same ethos.

Impact society & Foster cultural Exchange

(1) Bring student from all over the world

- Impacting Indian society
- Indian cultural export outside when Student go back.

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(2) Students completing degree will take back culture, values of India outside - increasing its soft power.

(3) Increase Tolerance & Assimilative Attitude of Indian society which is its Hallmark from Ancient times.

(4) Intermingling of Indian culture

Some Negative Impact which can be curtailed

(1) It might result in poor image outside India - [should be checked by providing Holistic Input]

(2) Imposition of western culture [Indian values should be core]

(3) Neglect of weaker section [scholarship should be provided.

Internationalization of Education is right step in this Amrit Kaal period to stop Brain Drain & Attract best talent all over the world to contribute to Developed India by 2047.

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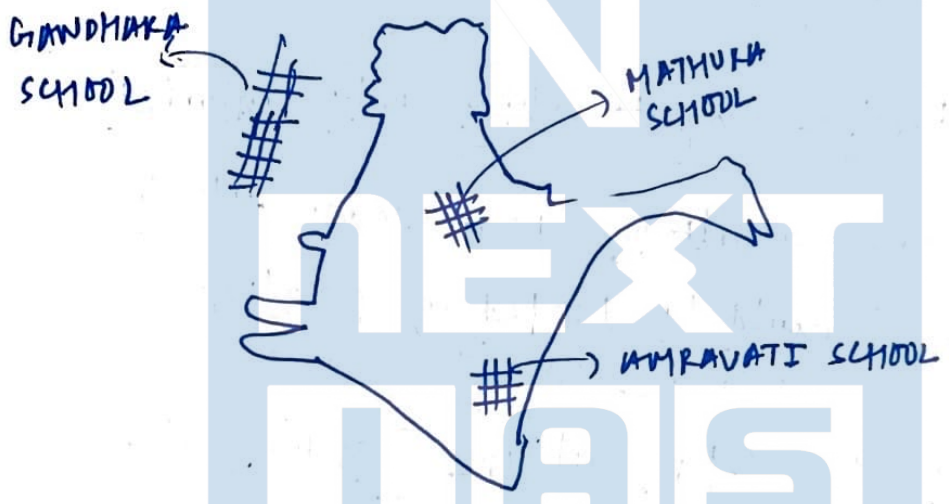
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11. यद्यपि गांधार और मथुरा कला के बीच कई अंतर थे, तथापि इन दोनों ने अमरावती कला शैली (अमरावती स्कूल ऑफ आर्ट) को पर्याप्त रूप से प्रभावित किया।' सविस्तार वर्णन कीजिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

'Although there were many differences between the Gandhara and Mathura art, they considerably influenced the Amravati school of art.' Elaborate. (Answer in 250 words) 15 Marks

The Art of sculpture was one of many wonder in the Artistic History of India.

MAJOR SCHOOL OF ART



Major Differences between Gandhara & MATHURA SCHOOL

	GANDHARA	MATHURA
1.	In North-Western region bordering Afghanistan	1. Around Mathura-Agra region
2.	Influence of Greeko-Roman Art	2. Completely Indigenous.

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3. Patronised by Kushan ruler.	3. Kushan ruler
4. More emphasis on spiritual for	4. Emphasis on liveatly form.
5. use Grey sandstone	5. Use of Red sand-stone
6. Buddha shown in more less humanly form	6. More dignified form
7. Eleanfly — Headless Kanishka sculpture	7. Various sculptures of Buddha

Considerably influence on Amravati school of Art

1. Common theme felt was Buddhism & its portrayal
2. work of skilled worker working & in guild/ Shreni's — no individual credit
3. Both Mathura and Amravati school completely indigenous.

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4. Use of Locally Available material and resources.

However Amravati school has considerably differences

1. Less Focussed Exclusively on Building but as part of larger assemblies.
2. Portrayal of Jataka Stories.
3. Less focus on Human Features
4. use of white Marble.

Hence it can be concluded that all 3 school of Art enriched our Great Civilization culture which is our Heritage today attracting Tourist from all over world. HRIDAY scheme is right step in this direction.

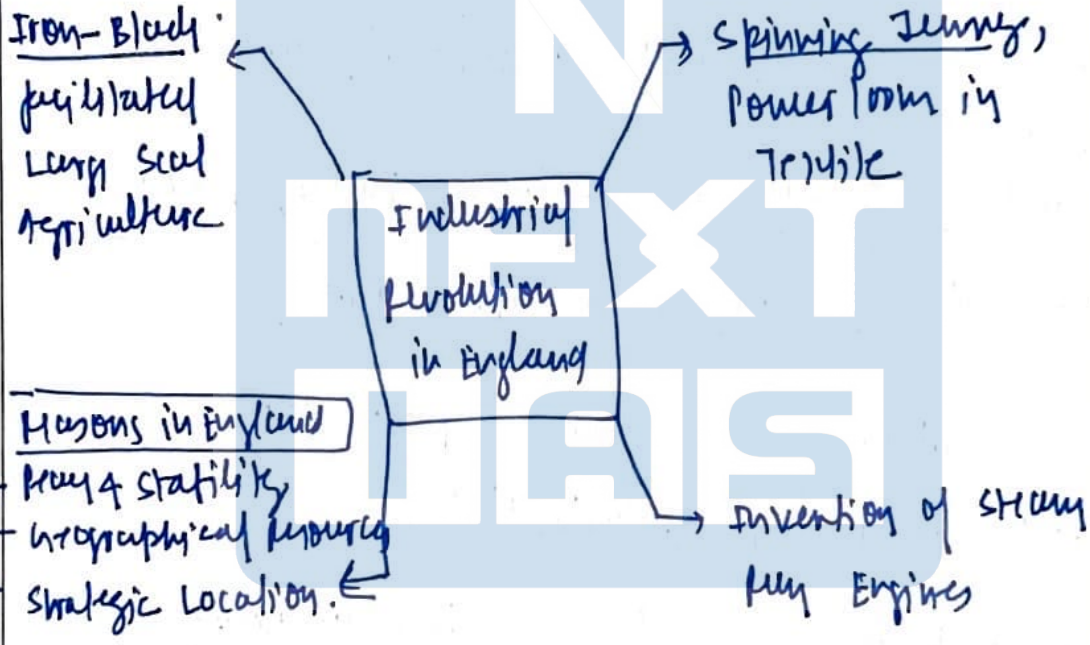
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12. 'इंग्लैंड की औद्योगिक क्रांति ने न केवल आर्थिक परिदृश्य को बदल दिया बल्कि इसके दूरगामी सामाजिक और सांस्कृतिक प्रभाव भी पड़े'। विवेचना कीजिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

'England's Industrial Revolution not only transformed the economic landscape but also had far-reaching social and cultural impacts'. Discuss. (Answer in 250 words) 15 marks

Industrial Revolution is transformative changes in method of production of goods which has ~~catastrophic~~ revolutionary impact in all spheres of life.



How I.R. transformed the economic Landscape

1. It started decline of Feudalism.
2. Rapid Industrialisation and emergence of capitalist class.

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3. Mercantile capitalism due to surplus production.

4. Shifting of peasants from Agriculture to urban Areas in Industries
↳ Urbanisation

5. Rising Prosperity resulted in increase for demand of Luxury Good (e.g.) Spices from Asia.

6. Increase in Trade and commerce all over the world.

7. Production shifted from Guilds to Factory Based

Far-reaching social and cultural impacts

1. It resulted in Emergence of New Elite like Merchant, Banker, Industrialists.

2. Poor conditions of workers working unhygienic conditions, Low wage, unsafe Factories.

3. Emergence of social Awakening – Renaissance & Reformation Movement

4. Question the Authority of Catholic church.

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5. New values like self-determination, Liberty, Equality, Freedom, Justice Emerged

6. New scientific Exploration (Eg) Newton's Law, Galileo discovery of Earth rotate around Sun.

7. Age of colonialisation started from here of Africa, Asia, South America.

8. Strengthening of Kings and attempt to stop ideas of Self-rule & Democratism.

The Industrial revolution was major Milestone in History of Mankind, the current 4th Industrial Revolution is also similar transformation happening world in which India should take lead to reap benefits.

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13. उन्नीसवीं सदी में पिछड़े पारंपरिक तत्त्वों और औपनिवेशिक संस्कृति के आधिपत्य के खिलाफ सामाजिक सुधार और वैचारिक संघर्ष ने एक विशिष्ट सांस्कृतिक पहचान और राष्ट्रीय चेतना के उद्भव को कैसे प्रभावित किया?

(250 शब्दों में उत्तर दीजिए) 15 अंक

How did the social reform and ideological struggle against the backward traditional elements and hegemony of colonial culture in the nineteenth century influence the emergence of a distinct cultural identity and national consciousness?

(Answer in 250 words) 15 marks.

Indian subcontinent witnessed social-religious reformation in 19th century which is also referred as Indian Renaissance.

Social reform against Backward Traditional element

1. Abolition of sati from the effort Raja Ram Roy i.e. Abolition of sati regulation under William Bentinck.
2. work for widow Remarriage by Ishwar Chandra Vidyasagar. [Widow Remarriage Act, 1856]
3. Focus on women Education (e.g. Bethune school, Vidyasagar's effort
4. Attack on caste Based Discrimination - effort of Jyotiba Phule, Gopal Ganesh Agarkar etc.
5. calling for Dismantling caste system by Dayanand Saraswati.

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Ideological Struggle Against Hegemony of colonial culture

1. Reviving Indian culture of past – it revived Ancient Indian Glory by leaders like Swami Vivekananda, S.D. Saraswati
   - ↳ Hinduism as way of life.
   - ↳ Aryan Theory
2. Exposing True Nature of Colonial Rule through Drain Theory and exposed with Marx's Burden Theory.
3. Visiting of India's Glorious Past & by Foreign personalities [Theosphist Movement]

Influenced & of Distinct cultural identity and National consciousness

1. Identity of common Historical & Geographical Feature all over India – concept of India.
2. Self Rigidity and self-determination principle by Nationalist seen during Swadeshi movement.

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3. Emphasis on concept of swarajya for betterment of India.

4. Revival of cultural Identity through Festival like Ganpati, Shivaji etc.

5. Going Back to Vedas called by by Dayanand Saraswati.

6. Vivekanand promoted ~~and~~ Vedanta and took India culture outside India also

7. Feeling to fight against common Enemy - colonial rule for Economic & social Betterment of India.

Thus it can be called the socio-religious movement of 19th century sowed seeds of Indian National Movement which ultimately resulted in India's 'Tryst with Destiny' - 15th Aug, 1947.

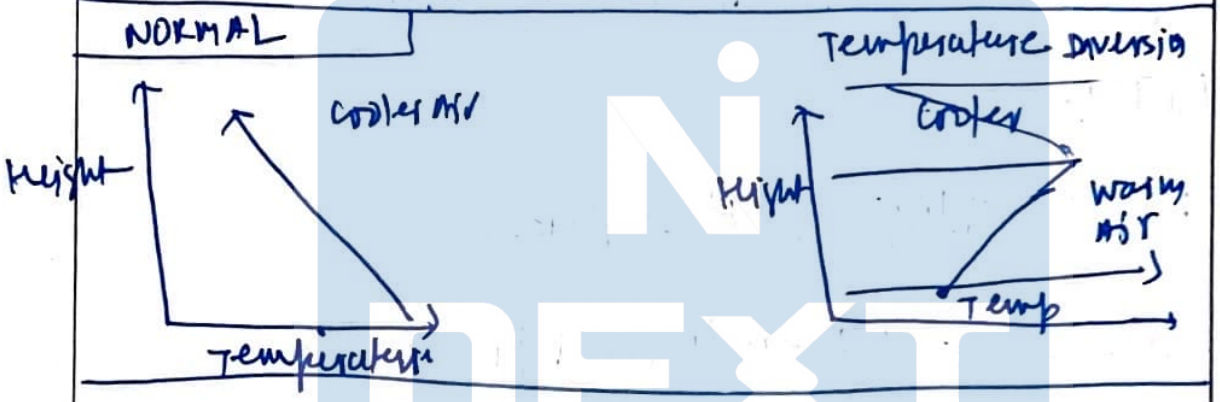
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14. तापमान व्युत्क्रमण वायुमंडलीय दशाओं को कैसे प्रभावित करता है और स्थानीय मौसम प्रतिरूप और वायु प्रदूषण स्तरों के लिए इसके क्या निहितार्थ हैं? (250 शब्दों में उत्तर दीजिए) 15 अंक

How does temperature inversion affect atmospheric conditions and what are its implications for local weather patterns and air pollution levels? (Answer in 250 words) 15 Marks

Temperature inversion is abnormal condition where Temperature increases with increase in height in the Troposphere



Affect on Atmospheric conditions

1. Increase in Temperature with Altitude.
2. Increase in Process & Intensity of convection
3. Concentration Micro-particles & dust in that zone and lack of dispersion.
4. Lack of cloud Formation at higher Level and discourage Rainfall

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Implication of Local weather Patterns

1. Cloud Burst become more prominent especially in Hilly Areas.
2. Increase in Dew & Frost conditions, Fog.
3. Trapping of Hotter Air around warm Air mass.
4. Lack of visibility in Atmosphere
5. Creation of Anti-cyclonic Depressions.

Implication for Air Pollution Levels

1. It worsen the Air Quality, increasing concentration of $PM_{2.5}$, PM_{10}, etc.
2. Foggy conditions, stability of Air as seen in Northern India during winter.

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Heavy temperature Inversion should be tackled with proper measures like water sprinkling to reduce level of pollutants & restraining from going outside unnecessarily.

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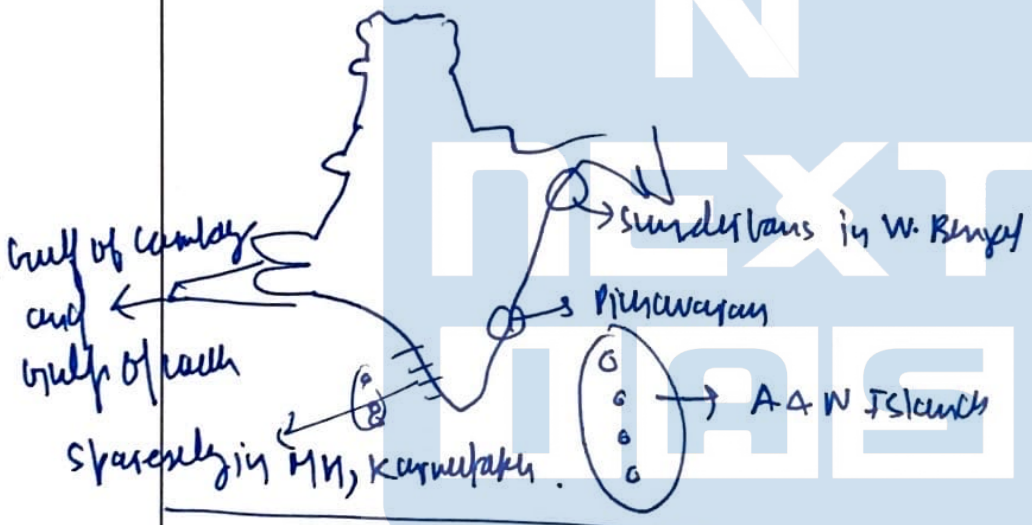
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15. भारत में मैंग्रोव वनस्पति के लिए कौन से भौगोलिक कारक उत्तरदायी हैं? जलवायु परिवर्तन भारत में मैंग्रोव वनस्पति के लिए किस प्रकार खतरा उत्पन्न करता है? (250 शब्दों में उत्तर दीजिए) 15 अंक

What are the geographical factors responsible for mangrove vegetation in India? How does climate change pose a threat to mangrove vegetation in India? (Answer in 250 words) 15 Marks

Mangrove Vegetation are distinct species of Plants found in Coastal areas due their salt-Tolerant quality.

Mangrove Vegetation in India



Geographical Factors responsible for Mangrove vegetation

1. Deltas formed by East flowing River like Ganga, Brahmputra etc ~~responsible~~ ~~for~~ ~~Go~~. [Mixing of Fresh water & Sea water]
   Example – Sundarbans.

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2. Tropical Type of climate along long coastline

3. Long coastline which is extended in sea. Eg: Mangrove on Eastern coast

4. Islands of India favour mangrove plants.
   Eg: Andaman & Nicobar Islands.

5. Estuaries on western coast sometimes support mangroves.

6. Gulfs where appropriate conditions of & for mangroves [Gulf of cambay]

7. Monsoon Type of climate, Heavy rainfall along coast with Tropical cyclone

CLIMATE CHANGE - Impact to Mangroves

1. Sea level rise leading to submergence of coastal Areas.

2. Increased Fresh water flow due to glacial melting, disrupt salt tolerant nature of Mangrove.

3. Biodiversity loss which impact the pollination in Mangrove Trees.

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4. Increased Temperature and Marine Heatwaves affecting Mangroves.

5. Extreme Events → Impacting Local population with Unique knowledge

reduced Ability to conserve Mangrove

Measures Needed

1. Reducing GHG Emission, following PANCHAMRIT commitment, Net zero Emissions
2. Artificial revival of Mangroves cultivation
   (eg) PICHAVARAM case study
3. Preserving Mangroves will enhance participation of Local population.

The MISHTI programme by Government of India in Budget 2023 is right step for achieving SDG 14 [Life on water] and SDG 15 [Life on Land].

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16. चीनी उद्योग की अवस्थिति को प्रभावित करने वाले भौगोलिक और आर्थिक कारक कौन–कौन से हैं, और वे भारत और विश्व के विभिन्न भागों में इस उद्योग के विकास में किस प्रकार योगदान करते हैं?

(250 शब्दों में उत्तर दीजिए) 15 अंक

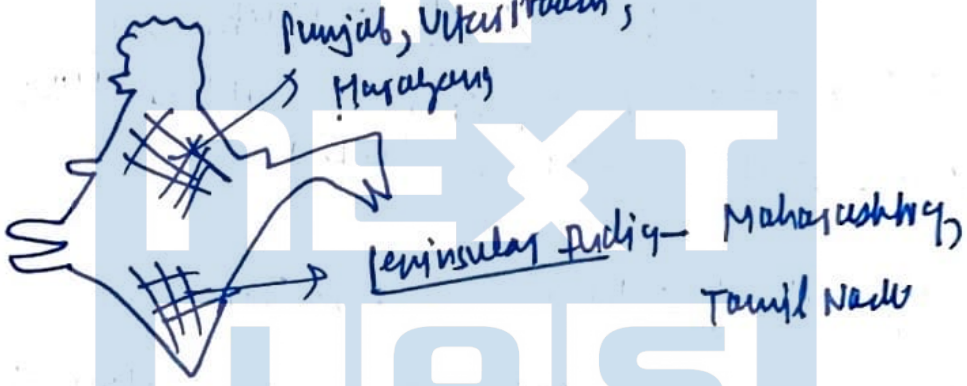
What are the geographical and economic factors that influence the location of the sugar industry, and how do they contribute to the growth of the industry in India and different parts of the world?

(Answer in 250 words) 15 Marks

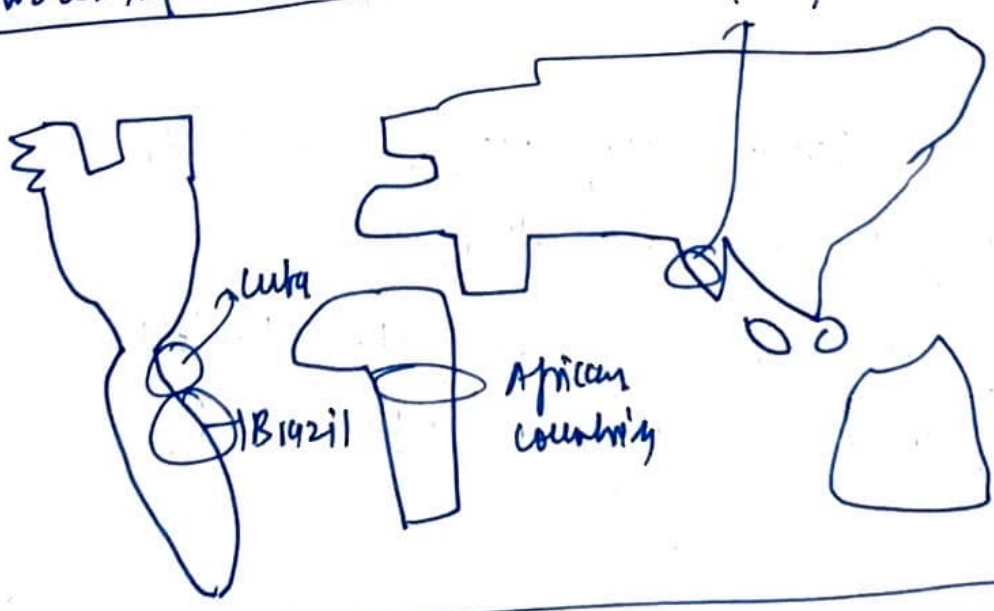
Sugar Industry have backward linkages with sugarcane cultivation and forward linkages with its processing to gur, khandsari, sugar etc.

Location Sugar Industries

1. India



2. worldwide



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Geographical Factors

1. Tropical & Equatorial climate for higher sucrose content. — [High Temperature, Humidity]
2. Along coastal areas to have moderating influence of sea.
3. High rainfall or Ground water — as it is water intensive
4. Fertile soil like Alluvial or Black soil
5. Located Near Crop Areas - to utilize Higher sucrose content.

Economic Factors

1. Highly capital intensive so prosperous areas (eg) Around Western U.P. Mh Saharanpur.
2. High Labour requirement Example — Northern India.
3. Cooperative working eg: for Processing, Marketing etc Example — Southern India
4. Modern Technology to process at cheapest cost & Highest Quality Example Brazil.

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CONTRIBUTE TO GROWTH OF INDUSTRY

(A) IN INDIA

(1) Growth of Industry around western U.P. belt due to Raw Material Availability & Labour and Prosperous Farmer.

(2) In southern part of India like Maharashtra & Tamil Nadu due to Higher Sucrose Content, Modern Technology etc.

(B) IN WORLD

(1) In Brazil due to Tropical & Equatorial climate.

(2) In Cuba due to Rapid Industrialisation and Favourable climate.

India's Efforts

1. MSP & and FRP for sugar
2. Export Promotion.
3. Jute packaging for Balancing Eco-Friendliness.

Sugar cane Industry is backbone of Agricultural & Manufacturing sector which should be promoted.

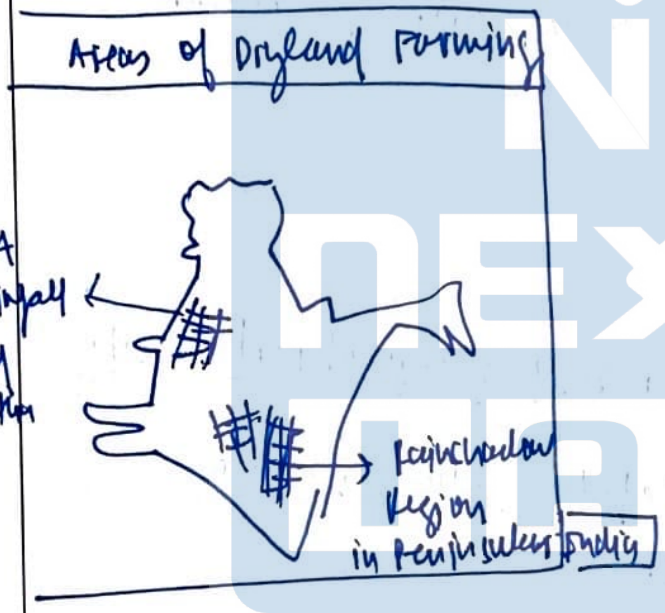
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17. शुष्क और अर्ध–शुष्क क्षेत्रों में जल की कमी को दूर करने और कृषि उत्पादकता को अधिकतम करने के लिए शुष्क–भूमि कृषि में उपयोग की जाने वाली मुख्य रणनीतियाँ क्या हैं? साथ ही, भारत में शुष्क–भूमि कृषि को बढ़ावा देने की आवश्यकता पर भी चर्चा कीजिए। (250 शब्दों में उत्तर दीजिए) 15 अंक

What are the key strategies used in dryland farming to overcome water scarcity and maximize agricultural productivity in arid and semi-arid regions? Also, discuss the need to promote dryland farming in India. (Answer in 250 words) 15 Marks

Dryland Farming is practised in Rain-shadow areas or the area where water availability is substantially Low.



Key Strategies in Dryland Farming to

(A) overcome water scarcity

1. Rain water Harvesting. Eg:- Construction of Tanks in Southern India.

2. Building of canal in Arid & Semi-Arid regions of Rajasthan. Eg:- Indira Gandhi canal in western Rajasthan.

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3. Government Initiatives - Jal Shakti Abhiyan.
   - during Monsoon.
   - Conserving water through Traditional structure - Bawlis, Pond etc.
4. Using Micro-Irrigation Techniques like Drip & Sprinkler

(B) Maximize Agriculture Productivity in Arid & semi-Arid Regions

1. Cultivating Drought resistant crop like Millets [Maize, Bajra, Ragi etc]
2. Use of Natural and Organic Fertiliser which requires less water.
3. Use of Traditional seeds which are less water intensive.
4. Use of soil Health card to determine appropriate crop.
5. Mixed cropping & subsistence Farming to act as agent of Insurance.
6. Watershed Approach to increase ecological Productivity.
7. New techniques like zero Budget Natural Farming.

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Need to Promote Dryland Farming in India

1. To ensure remunerative Prices to Farmers in their area and farming remains profitable to them.
2. Nutritional security through millet crops.
3. Diversification of Crop and increasing Export of same
4. Productive use of wasteland and underutilised Land.

Various step of Government

(1) watershed Development Approach

(2) P.M. Krishi Sinchayi Yojana - 'Har Khet ko Pani', 'Per Drop More Crop'

(3) Financial concession through NABARD for Micro-Irrigation.

Hence dryland Need to be promoted to ensure Doubling Farmer's Income [Dalwai committee], SDG 12 [Sustainable Production] and Nutritional security thereby in 'VIKSIT BHARAT' that is inclusive.

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18. समकालीन महिला आंदोलन ने पारंपरिक पद्धतियों से परे विविध दृष्टिकोणों को कैसे सम्मिलित किया है? साथ ही, समकालीन महिला आंदोलन के अनूठे योगदान और चुनौतियों पर भी प्रकाश डालिए।

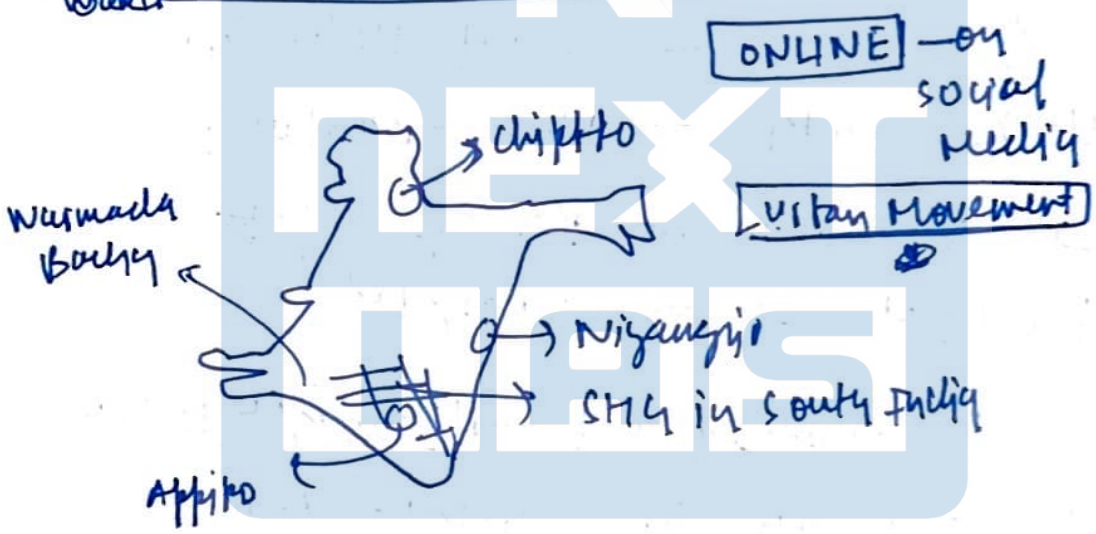
(250 शब्दों में उत्तर दीजिए) 15 अंक

How has the contemporary women's movement encompassed diverse approaches beyond traditional methods? Also, highlight the unique contribution and challenges of the contemporary women's movement.

(Answer in 250 words) 15 marks.

women Movement are movements for raising awareness about women rights and their demand for Equal participation in every sphere of life.

VARIOUS WOMEN'S MOVEMENT



Traditional Methods of women Movement

1. Picketing of shops like Alcohol & Tobacco shop.
2. Protesting Against inefficient distribution by ration shopkeeper

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3. collectively raising their voices through Non-violent methods like in Chipko for their Forest rights.

4. Organising Hartal, calling for closure in various part recently - Narmada Bachao Andolan.

Diverse Approaches in Contemporary Movements

1. Use of Technology — Social Media like Facebook, Twitter # Me Too campaign #Lahoo Ka Logaan for raising impostor imposition of GST on sanitary pads.

2. use of organised and well thought Protest
(e.g) women wrestler's protest against wrestling Federation chief.

3. Urban Movement like candle marches, use of legal route for women rights
(e.g) Nirbhaya Movement.

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Unique contribution of contemporary ✪ Movements

1. Women at centre of movement led by them.
2. Women Issues are primary Issues not secondary.
3. Raised Awareness about Gender Equality in Development Approach.
4. ✪ Enforcement of Stringent Laws for women Safety (eg) Criminal Law Amendment Act, 2013

Challenges of Movement

1. More in symbolic Nature, less in substance specially those on social Media
2. Lack of Unified Approach, Lack of consensus [Divergent Methods]
4. Capture by Political parties.
3. Lack of finances to organise movement.

Need
- → Pro-Active Approach by state - Beti Bachao, Beti Padhao
- New Technological penetration

✪ Women's Movement are New Age Subtle - Movement which reflects the awaken Nari Shakti in the New Duty.

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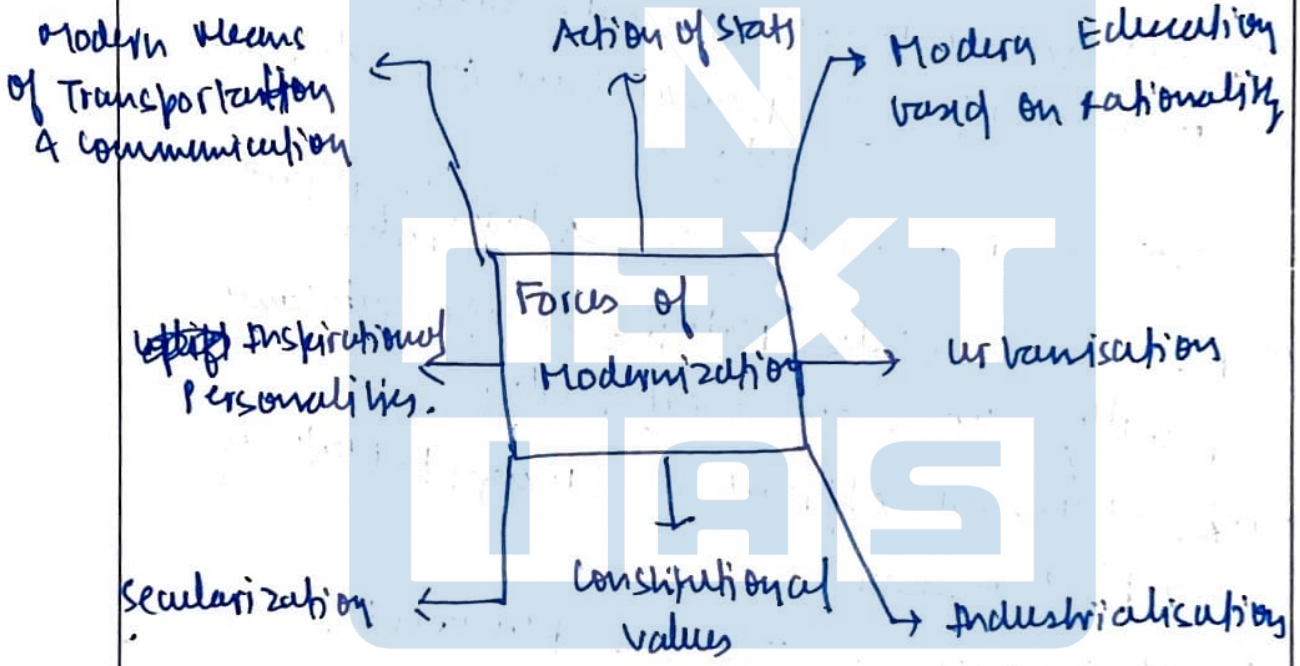
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19. क्या आपको लगता है कि आधुनिकीकरण की ताकतें, जिन्होंने भारतीय समाज में सामाजिक बुराइयों के उन्मूलन को उत्प्रेरित किया, ने हमारे सांस्कृतिक मूल्यों और लोकाचार को भी खतरे में डाल दिया है?

(250 शब्दों में उत्तर दीजिए) 15 अंक

Do you think that the forces of modernization that catalyzed the eradication of social evils in Indian society have also threatened our cultural values and ethos? (Answer in 150 words) 15 marks.

Modernization refers to progressive change in social, cultural, economic, political and attitudinal outlook of a society.



Forces of Modernization catalyzed eradication of social Evils in Indian Society

1. Industrialisation leading to Division of Labour on Skill Basis not Caste Basis.

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② Urbanisation leading disappearing of caste identity prevalent in rural areas.

③ Transport & communication Medium diluting the concept of separation of contact between various caste.

④ Modern Education promoting scientific Temper providing Equal status to women by overcoming prejudices & stereotypes.

⑤ Secularization leading to reduce role of religion ~~and~~ in political & state affairs.
- also promoting Equality - opening up of Temples

⑥ Judgement of supreme court - equal rights to Transgenders.

Threatened our cultural values & Ethos

NO, i don't think that forces of ~~Modern~~ Modernisation has led to this.

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Instead they have strengthened our cultural values & Ethos:-

1. Gender Equality which was also promoted in vedic times.
2. Skill based occupation was also prevalent Early vedic times.
3. Eliminating practices of black magic, superstition

However it can be said that blind imitation of western culture has led to a threaten -

1. Erosion of Local Language due to English.
2. Erosion of celebrating old & Traditional festival
3. Lack of social gathering and collective instinct of society.

As Gandhiji has said that "I would like to open the windows of my house open so that Fresh Air can come but i will remain stable enough so that I am not blown away". same Philosophy should be followed to ensure Progressive outlook with Traditional values.

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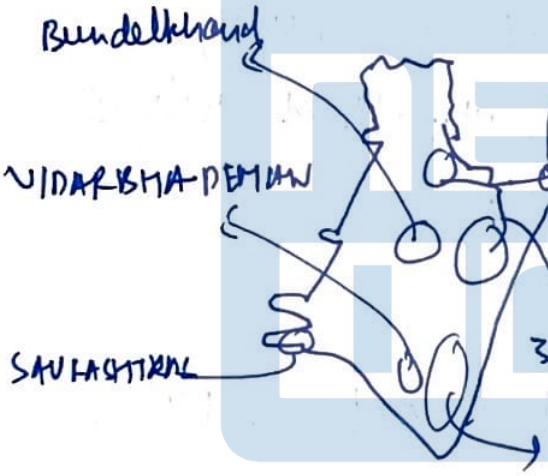
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20. भारत में राज्यों के संदर्भ में क्षेत्रीय विषमता और क्षेत्रीयता की भावनाओं के बीच संबंधों का मूल्यांकन कीजिए। क्या क्षेत्रवाद राष्ट्रवाद के विचार का विरोधी है? (250 शब्दों में उत्तर दीजिए) 15 अंक

In the context of states in India evaluate the relationship between regional disparity and sentiments of regionalism. Is regionalism antagonistic to the idea of nationalism? (Answer in 150 words) 15 marks.

Regionalism is concept associated with factors of caste, Language, Religion etc gets concentrated in geographical distinct region with feeling of relative Deprivation.

Regionalism in context of various states



Gorkhaland Bodoland various demand from separate statehood to separate Nation in North-East

3 New states formed [Chattisgarh, Jharkhand]

Linguistic chauvinism in southern state

Relationship between Regional Disparity & sentiments of regionalism

POSITIVES

① Due to Lack of connectivity & Development Deficit in North-Eastern region.

- Establishment Ministry of North Eastern Development
- 90-10 Fund by centre in C.S.S. scheme.

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② special rights like Autonomy and self-Determination under schedule 5 & schedule 6
↳ PESA ↳ eg North eachar Hills

③ separate Development Boards for Backward regions like ~~Marathwada~~ Vidarbha, Saurashtra etc.

④ eg Article # 371 providing special Provision.

⑤ Higher Economic development in newly created states [Telangana, Uttarakhand, Chattisgarh]
↳ As per Economic survey

Negatives

① Domino Effect — increased demand for creation of new states.
Example — Gorkhaland, Bodoland
↓ ↓
West Bengal Assam

② Pressure on resources — Increased dependency on Grant from centre as noted by Economic survey.

③ Unrestricted Exploitation of natural resources
Example - Uttarakhand.

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④ Increased tendency regionalism is considered blockage in process of National Integration
Eg:- son of soil in Maharashtra & Karnataka

IDEAS OF REGIONALISM Antagonistic to Nationalism

NO, in my opinion – it strengthen National integration by

① Fulfilling demand of Local People
② Local representation at various Level
③ Preservation of local culture
④ Increased Trust between centre and state

But tendency like secessionist demand, demanding statehood on a political/religion angles is threat to Nationalism. Hence it need to be checked

- National Integration council
- Inter-State Zonal Council
- More Autonomy to 5th & 6th schedule
- Local self Governance.

Here the statement of Hon'ble Sardar S.V. Patel aptly describes the situation "Regionalism needs to above National identities if it leads to National Unity".

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Space for Rough Work

