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Name of Candidate : Avishkar Vijay Desle

Roll No. : PTTP221034

Registration Number : ..... Date of Examination : 2 Sept 2023

Exam Centre : Old Rajinder Nagar ☐ Bhopal ☐ Online ☑

Test - 5 **Code : TC075**

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. : .....

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[To be filled by the STUDENT]

Student's Queries for the Evaluator (if any write them below)

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(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

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MACRO COMMENTS

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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.

India was connected with the world by virtue of land and sea routes which facilitated knowledge & cultral exchages.

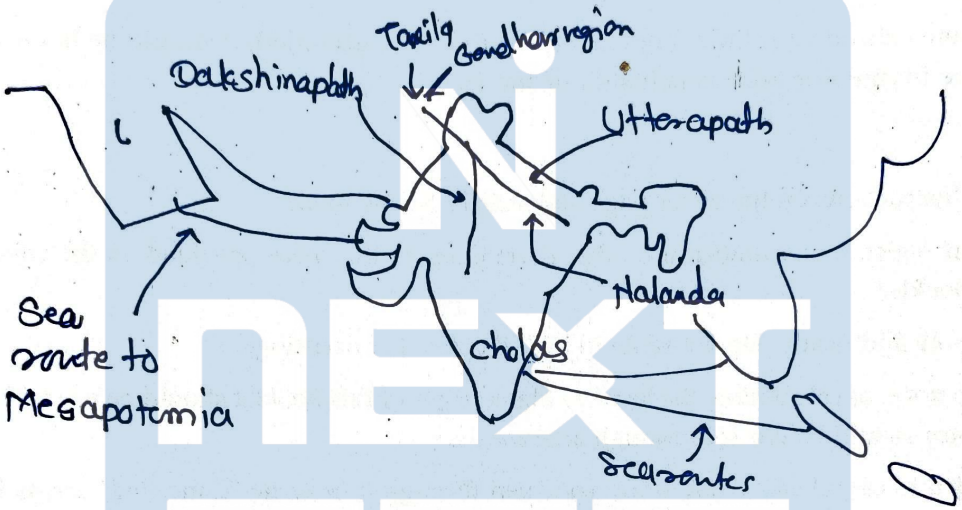


Fig:- Trade routes in ancient India

Ways in which trade routes connected India to foreign countries for cultre exchage

→① Indus valley civilization

↳ Had ties with mesapotamia. The IVC seals have been found in mesapotamia & viceversa.

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② Exchange of textual knowledge

↳ (eg) Yavanajataka in central asian countries ↔ brought horoscope and astrological knowledge to India

③ Cholas connection with South East Asian countries → Spread of Buddhism through sea routes.

④ Uttarapath and Dakshinapath

↳ Development of chaityas and viharas en route → helped in religious discussions.

⑤ Buddhist sculptural traditions :-

↳ Impact of Greco Roman & Bactrian elements on Indian sculpture like in Gandhara and Mathura Art.

⑥ Architecture → Indo Islamic architecture from Persia.

Thus, trade routes facilitated not only economic integration but also cultural dissemination.

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Candida write on

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.

Quit India movement was the last blow to the colonial rule in India. It spanned from 1942 to subsequent years

Quit India movemat cutting across class divides

① Huge participation from students.
↳ Gandhiji had given simple mantras Leave Study if contribend.

② Participation and support from peasants.

③ Geographical spread was huge.
↳ eg Patri Sarkar in Maharashtra by Nana Patil

④ Labour class participation through various movements.

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Women's leadership was also prominent

① Aruna Asaf Ali → took leadership at Gowalia tank Maidan.
led protesters.

② Sarojini Nayadu → was at forefront when major leaders like Gandhi were arrested.

③ Usha Mehta → Imp role in Conducting Secret Radio Stations and motivating people

④ Collective women's groups in Maharashtra, Karnataka region → took up picketingetc.

But some sections kept away
- Eg) Hindu Mahasabha.
- Some labour associations
- Muslim league

Thus, despite lack of support from sections, the quit India movement helped in expediting the process of power transfer.

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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

Recent huge success of India in form of Chandrayan-3 is a testimony of India's leap in science & technology.

India's progress in sci tech post Independence

→ 1) Nuclear energy → Pokharan Tests

→ 2) ISRO → most costeffective space agency in world.

→ (3) Green revolution – Role of ICMR

→ (4) DRDO → Defence indigenisation

→ (5) COVID-Vaccines vaccine maitri initiative.

Scientific development has helped India toward modernity

(1) Helped in improving access to services
- (eg) Women using mobiles has crossed 50cr

(2) Reducing extent of superstitions.
- (eg) Act against superstitions Maharashtra

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③ Addition of scientific temper as a fundamental duty under Article 51A.

④ Developing scientific outlook in young Age.
↳ ISRO's Atal Innovation mission.

But, yet a lot of work is to be done toward modernity

① Caste discrimination still persists
↳ recent suicide of a Dalit Boy from IIT Bombay

② People falling pray to fake gurus & baba despite being educated.

③ Issue of honour killing in wealthy families.

④ Blaming woman for not giving son, despite knowing the scientific Rationale behind it.

ways to use development for modernity

- Bringing science closer to people
  ↳ eg ISRO's success was celebrated by common people
- School to society science eg Delhi science fares.

Science is the vehicle of social transformation we shall be proud while using it.

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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

River interlinking refers to connecting rivers in order to balance excess water from one river to another.

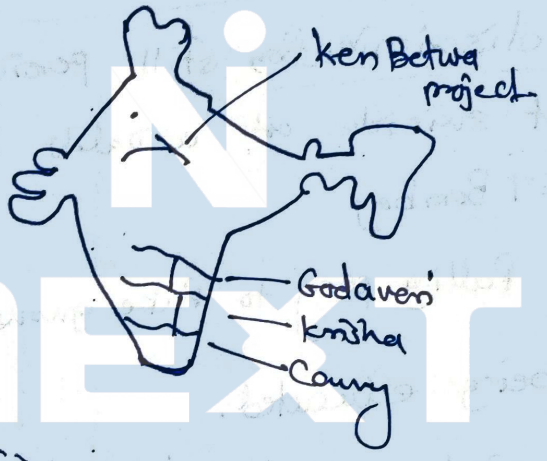


Fig: River Interlinking in India ~~to~~ proposed

Feasibility of interlinking

① It will help to reduce flood stress while improving water availability in drought prone area. (eg) Recent Yamuna floods

② Compare productivity of areas.

↳ 43% area in India → flood prone

↳ 68% ——→ drought prone.

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③ Development of waterways:-
↳ through canals.

④ To solve issue of drinking water and water for daily use. (eg) Ken Betwa project for Bundelkhand region

Issues in implementation

① Inter state river water disputes. (eg) Maharashtra Karnataka

② Impact on river ecosystem and biodiversity.

③ High costs incurred.

④ Impact on indigineous community due to displacement.

River interlinking have been in discussions for decades. Starting them on pilot basis at small scales can help to understand their feasibility better.

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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

55% of India's energy needs are fulfilled by coal based power plants.

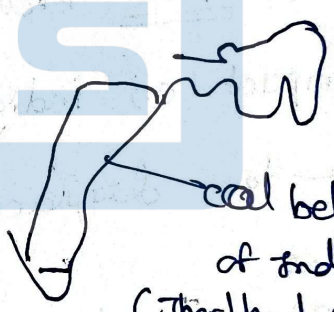
The shift of coal to renewable is necessary to achieve India's Panchamrita targets of 500 GW non fossil energy by 2030

Impact of structural shift from coal based power plants to renewables on human development

(A) Negative implications

1) Job loss for coal field workers

2) Coal mining → a low skill job → difficult to find new jobs.



coal belt of India (Jharkhand Odisha Chhattisgarh

3) Forced outmigration for jobs may happen.

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(B) Positive implications

① Reduce need of mining →
↳ less forest destruction
↳ Less displacement of tribals.
↳ (eg) Odisha Niyamgiri hills

② Cleaner energy sources
↳ good for health of locals
↳ eliminate diseases like biosinosis etc. which happen due to inhalation of coal particles.

③ Reskilling can help to get jobs for locals.

④ Help to improve situation in LWE affected areas.

According to IEA, 90% of new power plants in world are renewable energy plants. In this transition India will be playing a huge role.

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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 a vital component of ecosystem. It takes around 800 - 1000 years for creation of 1cm thick layer of soil naturally

Role of temperature and precipitation in determining soil properties

① Temperature fluctuation helps in breakdown of rocks.

② Very high temperature → may lead to death of soil microbes reducing fertility.

③ Precipitation helps in rocks denudation.

④ Humidity due to precipitation impacts on soil properties - eg Kokan region red laterite soil : very high precipitation.

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Other factors determining soil properties

① Rock type → Basalt Rock → blacksoil

② Rock mineral content → (eg) High iron Content → Red soils.

③ Role of soil bacterium → (eg) in leaching and degradation of organic material → humus formation

④ Vegetation → (eg) Pulses → Nodules → High nitrogen content in these soils. → High fertility.

⑤ Rivers sedimentation
(eg) Fertile plains of Ganga.

Soil is our mother. According to UNCCD 30% of soil has degraded. It is time for us to do a collaborative effort to save soil.

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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

Traditionally the Bay of Bengal is considered as hotbed of cyclones. But in recent times Cyclones in Arabian sea have increased. (eg) Recent Biparjoy cyclone.

Reasons for increasing frequency and intensity of cyclones in Arabian sea

① Climate change & global warming
↳ increased sea surface temperature
27°C → required for cyclone formation

② Disturbed thermohaline circulation.
↳ warmer water reaching Arabian sea.

③ Increased frequency of El Nino.
↳ impacts sea surface temperature

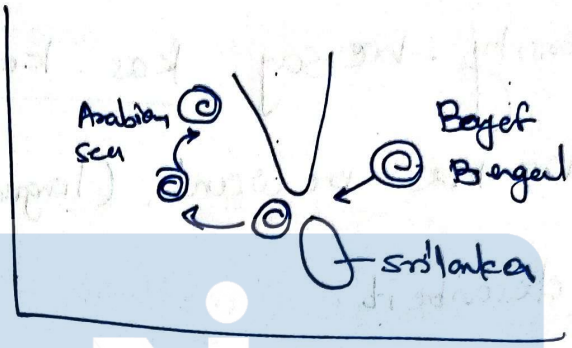
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④ Positive IOD phenomenon. → warmer Arabian sea.

⑤

⑥ Cyclones crossing over from Straits.



Measures required to tackle cyclones

① Strengthening early warning systems.
↳ eg IMDs new NAVTEX system.

② Training of locals in first response.

③ Disaster resilience infrastructure
↳ eg emergency shelters.

④ Knowledge inventory.
↳ eg IAS Pradeep Jena of Odisha → experience of handling 10+ cyclones.

IPCC report 6 has hinted at increasing frequency of cyclones. Preperation over response should be prioritised as per Sendai framework

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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 has a huge cultural diversity. We say kos kos pe badle pani, chor kos pe wani, (language changes every 4 miles) to describe it.

Distinctive cultural features of Southern states

① Linguistic traditions → The Dravidian languages belong to a separate family than Indo Aryan group. (eg) Tamil, Telugu

② Less impact of external invasions on cultre. (eg) ⊖ classical dances like Bharatanatyam, kuchipudi

③ Local deities and festivals followed more religiously.

④ Clothing → Despite western influnce,

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we can see many people in traditional attires (eg) Politicians, film actors.

⑤ Unique architecture of southern states
↳ Dravidian form of architecture.

Yet, there are certain cultural traits which integrate southern states with ~~rest of India~~

① Values of Atithi Devo Bhava.

② Deccan plateau region as a connecting link between the two.

③ High popularity of South (Hindi dubbed) movies in Northern parts.

As a nation diversity is our hallmark.

At the same time we shall strive for

Ek Bharat shreshth 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।

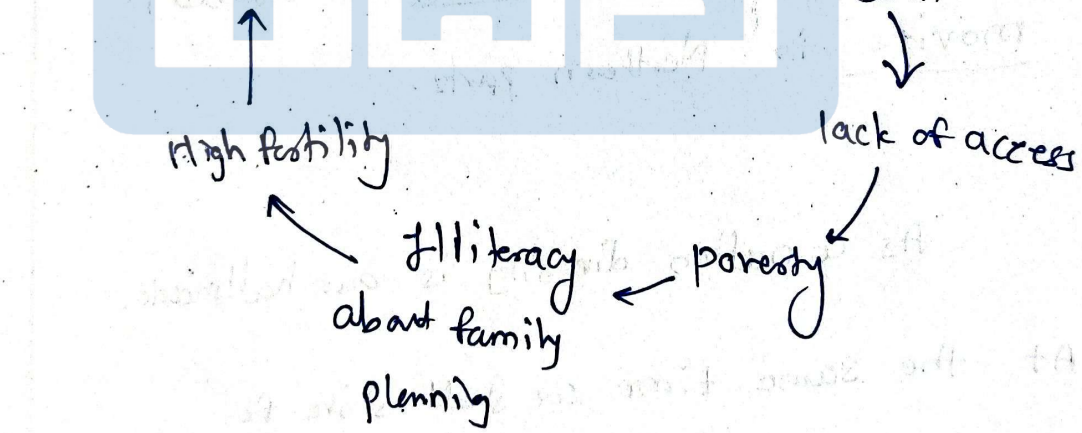
(150 शब्दों में उत्तर दीजिए) 10 अंक

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

According to NITI aayog multidimensional poverty index 15% of population is still poor. Whereas acc. to "UN populations" India is now world's most populous country.

Vicious cycle of population & poverty



How poverty restricts individuals ability to break free from cycle.

① Lack of access to quality education →

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low skill → low paying jobs → poverty continues

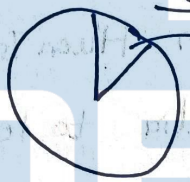
② Can't afford nutritious food → poor cognitive growth → poor edu performance

③ Population growth straining resources

① Inadequate housing → slums in urban areas.

② Lack of access to pure water → health issues.

③ Small share in growth pie



10% population
75% income oxfam report.

Measures required

① Speedy implementation of schemes like NRLM, NULM.

② Expanding scope of education and employment opportunities → long term soln.

③ Tackling issue of culture poverty

Amartya Sen's welfare approach can be utilized to improve the situation of poor people in India.

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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's ancient universities like Nalanda and Taxila are great examples of internationalisation of education.

App
Other examples
- Buddhist missionaries by Ashoka
- FaHien, Huen Tsang → took books from India to learn.

Impact of internationalization of education on Society and cultural exchange

① Societal development

↳ (eg) setting up of campuses of international universities in India → will have spillover effect on community in vicinity.

↳ (eg) BITS pilani study of adjacent communities.

② Impact on values → Both +ve and negative.

↳ western values

↳ Women's education & secular outlook.

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③ Cultural exchange through
↳ student exchange programmes.
↳ students in foreign universities will engage with local communities.

④ Internationalisation of local traditions
↳ (eg) Documentaries made on Pandharpur Wari.

Ways to ensure this impact is positive

① First instilling knowledge about own culture from young age.

② Maintaining distinctiveness of culture.

India is a melting pot of cultures thus the internationalization of education will result in continuity of our older tradition.

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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

Despite being geographically and politically separated Gandhara & Mathura art has influnced Amarawati school of art.

Differences bet^n Gandhara & Mathura art.

Gandhara Art	Mathura Art
① Use of dark colored stones.	① Use of red sandstone with white dots.
② Buddha's face is shown calm.	② Buddha's face is shown more delightful.
③ The body characteristics resemble with Greek gods. well chisled body.	③ Body characteristics resemble that of other local deities. Were normal humans.

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Gandhara Art	Mathura Art
④ Presence of hercules in some images.	④ Presence of Yaksh Yakshinis.
⑤ Less use of Bodhisatva figurines.	⑤ Prominent use of bodhisatva figurines.
⑥ Curly hair	⑥ Straight hair
⑦ Smaller Halo.	⑦ Bigger halo

Impact on Amaravati school

① Impact on depiction of Jataka kathas in images.

② Use of variety of material white ~~Sagemaran~~ white marble was most prominent.

③ Use of indirect expression for stories

④ Fine artwork adopted from Mathura tradition.

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Thus, both Gandhara and Mathura school had impacted Amaravati school of architecture.

Much of the impact is owed to trade relations between the two regions through Dakshinapath & political patronage by traders & local kings

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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

The Industrial revolution in England started in Mid-18th century on backdrop of a scientific revolution and a renaissance.

IR's impact on economic landscape

① Improved efficiency and speed of industries. → Capitalism grew.
↳ Huge production → profits.

② Developmet of merchant guilds and companies. (eg) East India company.

③ Development of Share market system.

④ Invention of steam engine → railway cars
↳ & Better connectivity & economic development.

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⑤ Negative impact on colonies like India

↳ Cheap factory made goods without any import duty entered India → loss of Indian industry.

↳ Railway used as a means of faster economic exploitation of colonies.

↳ Heavy exploitation of natural resources from colonies of Africa & India

Social and cultural impacts of IR

① Development of new working class.

② Migration to urban areas

↳ poor living conditions

↳ slums etc. → spread of new communicable diseases, epidemics.

③ Culture of capitalism and consumption

④ Depiction of this through movies.

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↳ (eg) Charlie Chaplin's movies.

(5) Development of socialism as a counter theory to Capitalism → Karl Marx Das Capital

(6) Negative social implications on colonies.
↳ Heavy exploitation → poverty

(7) Loss of traditional culture.

Thus, the Industrial revolution impacted not only economic sphere but also socio-cultural landscape of the world. Which can be seen even today.

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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.

Social reform movement in India was motivated mainly through the quest to free fellow countrymen from the shackles of orthox traditions.

Role of social reform movements and Ideological struggle

(A) In distinct cultured identity

(1) ↳ Promotion of old traditions.

(eg) Raja Rammohan Roy utilized vedas & Upanishad to argue against Sati pratha.

(2) ↳ Gave back self confidence to common masses

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③ ↳ Rejuvenation of old festivals + creation of new.

↳ Lokmanya Tilak → Ganapati festival

(B) In promoting national consciousness

① Through literature

↳ Anandamath → motivated the people to stand against British Rule

② Savarkar's book on Freedom Struggle of 1857.

③ Preaching against White man's burden.

④ Rejuvenation of old ancient historical tradition to instill a sense of commonality among Indians.

↳ eg Rule of Ashoka across India.

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⑤ Use of newspapers and press to create awareness amongst common people.

⑥ Role of Women

↳ Jyotiba phule & Savitribai phule led women's education. which led to entry of women into national movement

Social reform movements created a solid base of social transformation on which the later freedom struggle movement was stationed

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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?

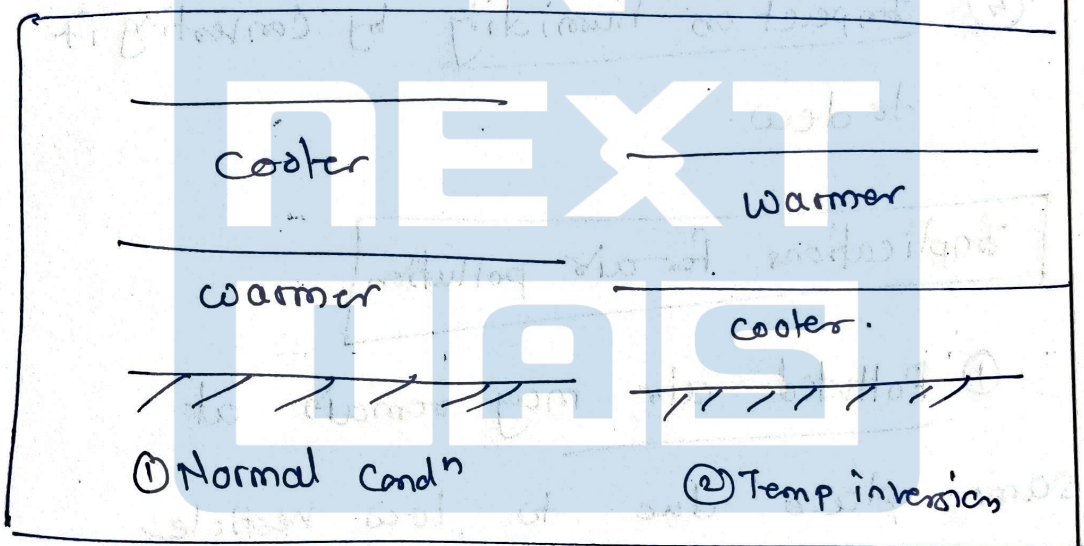
How does temperature inversion affect atmospheric conditions and what are its implications for local weather patterns and air pollution levels?

(250 शब्दों में उत्तर दीजिए) 15 अंक

(Answer in 250 words) 15 Marks

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Temperature inversion is a situation wherein the temperature near the surface of the earth is low as compared to temperature of upper levels of atmosphere.



Impact on Atmospheric Conditions

① Low vertical movement of air.

② Clear weather (clear night sky) to allow heat to go up.

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③ May happen during snowfall conditions.

Implications for local weather patterns

① Low movement of wind.

② Extremely cold mornings due to cooler air.

③ Dew drops formation.

④ Impact on humidity by converting it to dew.

Implications for air pollution

① Polluted air may remain at same place due to low vesticle & horizental wind movent.
↳ Can cause respiratory issues.

② High concentration of suspended particles in air.

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↳ (eg) In Delhi → High pollution levels during winters.

Thus the temperature inversion is a phenomenon with implications on air quality and local atmosphere.

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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

India has 4992 sq.km of Mangroores in diffent parts. (Forest surrey of India 2020) State of Forest Report.

Geographical factors responsible for mangroves

① Long coastline → 7500 km

② Delta formation by many rivers
↳ creates a conducive atmosphere for mangroove → eg Cauvery, Ganga ↳ Sundarbans Delta

③ Presence of shallow continental shelfs.

④ Presence of Esturies eg Narmada river basin.

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Impact of climate change on mangrove vegetation in India

① Rising temperatures of river waters and sea surface → impact on mangroves.

② Rising frequency of tropical cyclones leads to damage of cyclones. Gives very less time to rejuvenate for mangroves.

eg Back to back cyclones on Odisha coast.

③ changes in precipitation patterns

↳ erratic monsoon patterns

↳ Extreme climate events like flash floods

↳ Impact the mangroves.

④ Changes in thermohaline circulation patterns → changes in salinity levels of seawater → negative impact on mangroove vegetation in India.

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Ways to secure mangroves

① Programmes by govt of India like MISHTI initiative.

② Global mangrove alliance.

③ Learning from global best practices.

④ Reducing agriculture runoff which has high quantity of chemical fertilizers. (PM-PRANAM scheme)

⑤ CRZ regulations.

Mangroves are gatekeepers of Coastal areas. We must secure them to ensure healthy Coastal development & Security of Coastal communities

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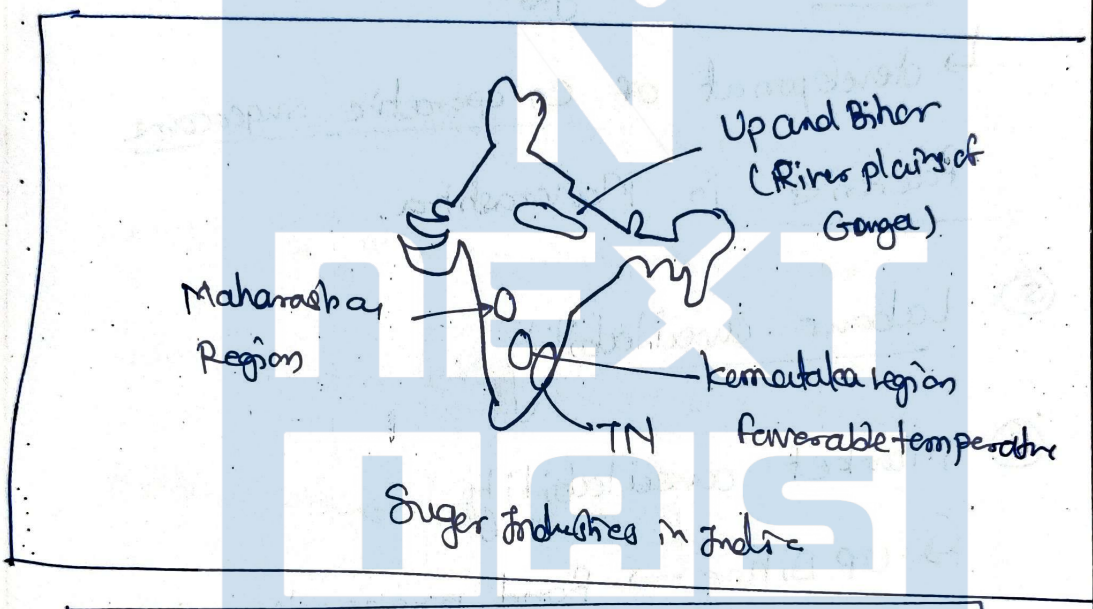
16. चीनी उद्योग की अवस्थिति को प्रभावित करने वाले भौगोलिक और आर्थिक कारक कौन–कौन से हैं, और वे भारत और विश्व के विभिन्न भागों में इस उद्योग के विकास में किस प्रकार योगदान करते हैं?

(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

India is one of the largest producers of sugar in the World after Brazil



Geographical and economic factors that influence location of sugar industry

① Availability of water for sugarcane development
↳ UP & Bihar Ganges & Yamuna waters.
↳ Maharashtra → Dams + irrigation projects.

② Favourable temperature
↳ Tropical region of Karnataka.

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③ Soil quality

↳ Maharashtra → Black soil → better water retention + High fertility.

↳ UP Bihar MP → River floodplains fertile land.

④ Policies of state governments.

↳ FRPs for sugar

↳ development of co-operative sugercane factories in Maharashtra.

⑤ Labour availability

⑥ Market availability.

↳ UP Bihar → food processing industry of Punjab

↳ Mumbai Port + local consumption of sugar.

Contribution of sugar industry to growth of industry in India & world

① Production of ethenol as biproduct.

↳ (eg) Recently ethenol based flex fuel vehicle launched in India.

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② Development of food processing industry in vicinity → eg Rawalgaon confectionaries Maharashtra.

③ Creation of organic fertilizer from residue.
↳ eg Brazil

④ Jaggery making factories in vicinity.
↳ UP, Bihar.

Sugar industry has a high spillover effect for other industries. Today with new Ethenol blending targets India's sugar industry is being benefitted from dual option of sugar & ethenol production. While achieving that we must be cautious of virtual water export due to its water intensive nature of sugarcane.

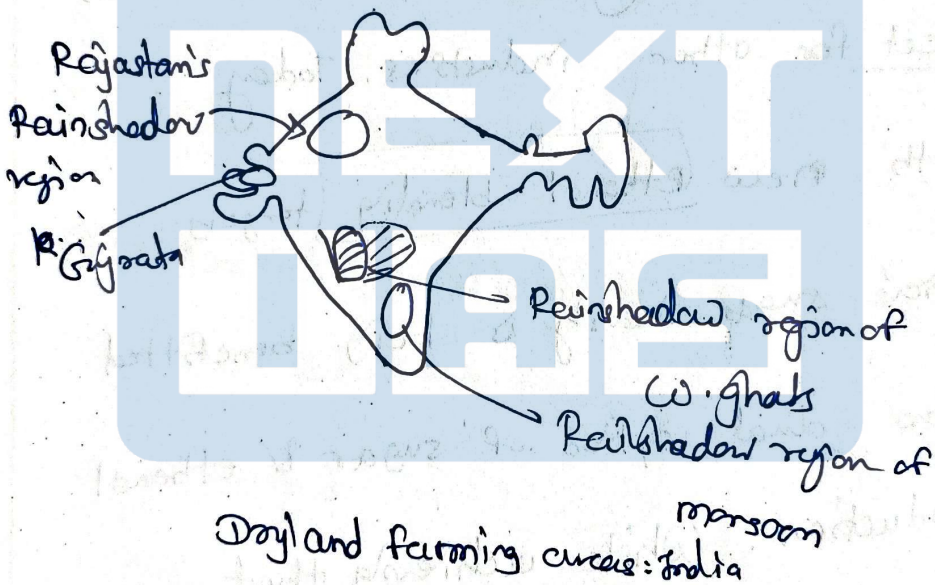
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17. शुष्क और अर्ध–शुष्क क्षेत्रों में जल की कमी को दूर करने और कृषि उत्पादकता को अधिकतम करने के लिए शुष्क–भूमि कृषि में उपयोग की जाने वाली मुख्य रणनीतियाँ क्या हैं? साथ ही, भारत में शुष्क–भूमि कृषि को बढ़ावा देने की आवश्यकता पर भी चर्चा कीजिए। (250 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 refers to minimum use of water while depending upon the rain water as a source.



Dryland farming areas: India

Strategies used in dryland farming

1. Crop selection
   - Millets like Jawar, Bajra consume less amount of water.

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(2) Use of drip irrigation
↳ Per drop more crop scheme

(3) Use of rainwater harvesting on benches.
↳ (eg) Popatrao Pawar's Hiwarebazar village and Anna Hazare's Ralegansiddhi despite being in rainshadow region.

(4) Use of organic material
↳ Mulching + Mulching paper to reduce evaporation of water.

(5) Low gestation crops to reduce water use

(6) Use of polyhouses to reduce water evaporation from leaves

Need to promote dryland farming in India

(1) Water scarcity →
↳ 5th Minor irrigation survey the groundwater tables have gone down by 61%

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② Drought issue

↳ 68% area of India is drought prone.

③ IPCC 6 report → Increasing no. of extreme climate events will trigger droughts

④ Environmental sustainability

Other measures to support dryland farming

① PM-PRANAM scheme → use of organic material.

② PM Krishi Sinchayi Yojana → irrigation cover.

③ Food processing industry value chain creation

④ Creation of Farmer producer organisations.

↳ JJ Irani Committee.

2023 is El nino year. And many parts of India are already witnessing drought. Thus, there's a need to promote less water intensive dryland farming.

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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.

India has a long history of women's movement from All India Women's Congress setup in 1927. While Savitaibai phule started the work in 18th century only.

① Diverse approaches taken by contenporay women's movemnt

① Use of legal route → Vishakha guideline in Vishakha Vs State of Rajastan for preventig sexual Harassment at workplace.

② Innovative methods - Gulabi Gang in UP against domestic violence.

③ Economic empowerment → SEWA Self employed women's association (1974

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④ Socio-economic support to each other

↳ Development of women SHGs.

↳ eg Kudumbashree in Kerala

⑤ Political participation.

↳ eg At panchayat levels → recently Maharashtra had an all women panchayat

⑥ Use of social media → Nirbhaya movement

Unique contribution and challenges of Contemporary women's movements

Contribution

↳ ① Raising awareness about rights among women.

↳ ② creating public opinion.

↳ ③ Various legal reforms

↳ eg POSH Act, Domestic violence Act, Medical termination of pregnancy act.

↳ ④ Promoting equality

↳ Babita Poonia vs secretary Min of

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defence case → Women allowed to have permanent commission.

Challenges →

① Patriarchial attitude of those in power
↳ Inordinate delay in filing case against chief of Wrestling federation despite long drawn protests by female wrestlers.

② Gaps in implementation of laws.

③ Low representation of Women
↳ only 12% at lower judiciary
↳ 10-15% in police forces.

④ Issue of Sarpanch pati in local bodies.

Women's movements have gone long way in securing rights for women. An adequate support from male counterparts is essential for the realization of SDGs.

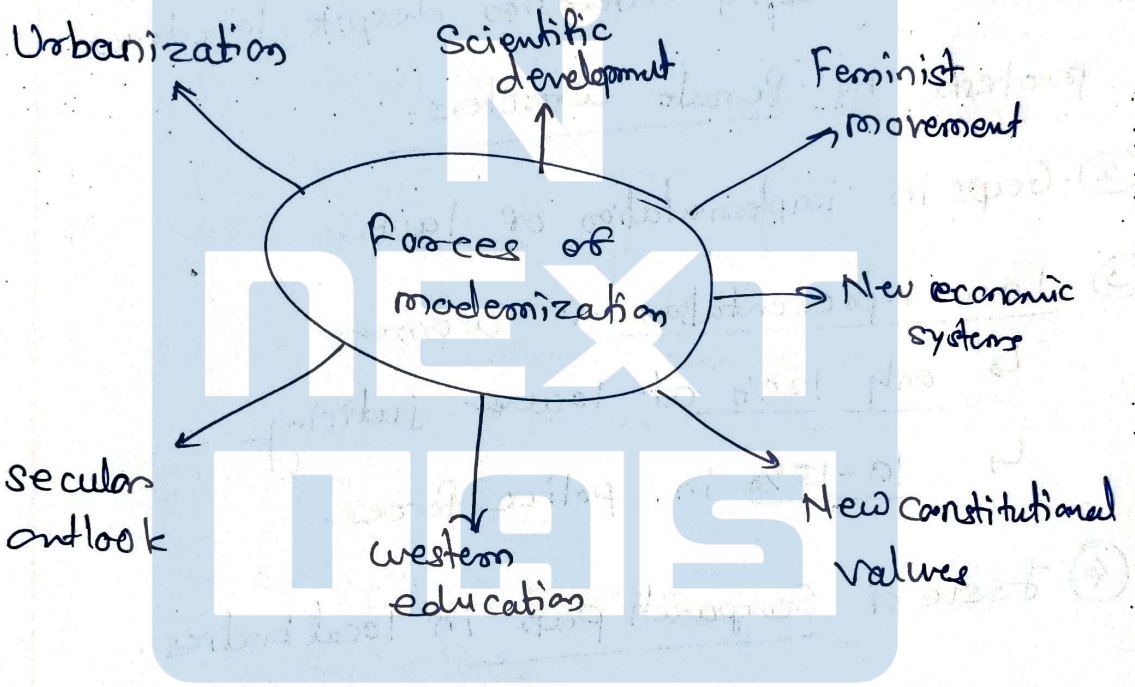
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19. क्या आपको लगता है कि आधुनिकीकरण की ताकतें, जिन्होंने भारतीय समाज में सामाजिक बुराइयों के उन्मूलन को उत्प्रेरित किया, ने हमारे सांस्कृतिक मूल्यों और लोकाचार को भी खतरे में डाल दिया है?

(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 adoption of modern values by society by leaving behind orthor traditions.



Forces of modernization led to eradication of Social evils

① Scientific development → eradication of superstitions.

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② Feminist movement → Eradication of sati, inequal treatment to women.

③ New economic opportunities
↳ Economic empowerement of women

④ New political system
↳ Eradication of untouchability (A17)
↳ Better representation for SC, ST (A340, 342)

⑤ Globalization and social media
↳ better information dessimination

Forces of modernization threatening our cultural values and ethos

① Homogenization of societies across world
↳ similar clothing, food & language.

② Loss of traditional values
↳ Joint → nuclear family.
↳ Increasing divorce rates.

③ Urbanization → & traditional Festivals left behind.

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④ People showing stigma about traditional cultre in the name of modernization

But, to some extent the Indian society has molded modernization with tradition

① Internationalization of Yoga & local festivals

② Local cuisine reaching globe through Youtube

③ New trend of traditional clothings.

④ Virtual aarti, Darshan.

Modernization is a tool. If we cautiously use it, it can do more good than harm upon Indian socity & cultre

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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 refers to more assertiveness for the region including economic, political & cultural rights.

Relationship between Regional disparity and sentiments of regionalism

① Economic disparity
- ↳ Demand for separate Vidarbha due to development deficit
- ↳ Demand for 5 states within UP, Purvanchal, Harit Pradesh etc.

② Political disparity
- ↳ Deprivation of political rights
- ↳ demand for separate nation of Nagalim in Northeast
- ↳ Creation of Jharkhand → Jharkhand Mukti morcha.

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③ Cultural disparity

↳ Dravid movement against imposition of Hindi in southern states.

Other reasons for regionalism

→ ① Ethnic sentiments → eg N-E. states.

→ ② Ideological → eg Naxal movement

→ ③ Political oppositionism → eg anti Bihari movement in Maharashtra

Regionalism seen as antagonistic to nationalism

① Cessationist tendencies → eg Nagalim movement

② Demands for separate flags and anthem.

③ Creates regional divides → diverts focus from important issues.

④ Leads to violence due to extreme natures → eg Border issues betn Assam - Meghalaya

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⑤ Stalls developmental process.

But a healthy & competitive regionalism can help the cause of nationalism

① Promoting local culture → eg

South Indian Temple towns.

② Competitive federalism. → Investment in UP increased manyfold in recent times.

Some suggestions

Venkatachalaih commission

↳ The issue must be seen with empathy

↳ Separate flag should not be allowed

↳ A collaborate dialogue & discussion.

↳ Strengthning Interstate council (A263)

If well utilized the energy of regional sentiments can be utilized to foster a culture of development

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Space for Rough Work