Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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Roll No. : PTTP221185

Registration Number : ..... Date of Examination : 27-08-23

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.

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SUBJECT/PAPER
GENERAL STUDIES

Invigilator's Sign. : .....

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

(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

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

MACRO COMMENTS

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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write on this

1. भारत को विदेशों से जोडने 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.

The ancient trade routes has enabled exchange and dissemination of culture in organising the lives of population.

Contribution of ancient trade to culture of India

1) Religion:- The incidence of Islam is attributed to the trade with middle East countries.

2) Music:- Hindustani music is disseminated due to trade with foreign countries. Eg:- Amir Khusrau

3) Art:- The development of Mughal art, Gandhara art is fusion amalgamated from ancient trade routes

4) Languages:- The exchange of culture lead to development of languages. Eg:- Indo-Aryan languages

5) Food practices:- The delicacies of foreign market

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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an exchange with native Indians

↳ Eg: Cultivation of wheat.

6) Social institutions:- The exchange of culture lead to homogenisation of cultures.

↳ Eg: Matrilineal to Patrilineal

Bride price to Dowry.

7) Subjugation of women:- The ancient trade routes has influenced the subjugated role of women as inferior to men.

Thus, ancient trade route has enabled exchange and dissemination of cultural influences cultural diversity in India

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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.

Quit India movement / August revolution started in 1942 has revolutionized the freedom movement of India with broad based participation

Women leadership during Quit India movement:-

1) Sarojini Naidu - She was one of the pivotal leaders leading charge during Quit India movement

2) With major leaders arrested by Britishers, women upheld the spirits of the movement

3) The operation was led by women by organizing the movement through radio.

4) Women took active role in mobilising the people and rallying against the Britishers.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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5) Women played active role in horsely natural flays, releasing journals to continue the movement.

While Quit India movement was culminated due to failure of Cripps Mission, the mission was successful in empowering women in continuance of freedom movement.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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

Jawaharlal Nehru has opined post-Independence that development of science and technology marks the progress of Indian modernity

Extent the scientific development put India on path of modernity:-

1) 2nd five year plan - The plan aided in promoting manufacturing through scientific development.

2) Nuclear science - The pursued efforts of Homi Bhabha, Vikram Sarabhai propelled development of Nuclear program

Ex:- Apsara, Cirrus.

3) Space Technology:- The creation of ISRO and subsequent launch of Aryabhatta missions hallmarked Indian modernity

Next IAS ID: PTEP221185, TC075, 28-08-2023 09:15 PM

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4) Mechanisation of industries through crafted industrial policies has modernized Indian economy.

5) The prompt growth of services sector post-liberalisation era epitomises the Indian modernity post-Independence.

However, certain regions didn't experience the benefits of science and technology developments such as-

-i- Agriculture - The field largely remains human-intensive process

-ii- Artisan industry didn't witness scientific development.

While India has achieved huge strides in science and technology, there are areas where modernity is yet to be achieved, which would propel India's growth.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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

Interlinking of rivers has been rejuvenated with recent announcement of Ken-Betwa project by Ministry of Jal-Shakti.

Feasibility of interlinking rivers against water stress.

1) Transfer of water resource from surplus to deficit region.
2) Hydro-energy can be utilised to pump the water resource across the interlinking projects.
3) Ensure food security through sustained plantation
4) Prevent environmental migration due to desertification

Non-feasibility of interlinking rivers against water stress

1) High cost in execution of project.
2) Close to 30% of energy produced is utilised for pumping purpose.

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3) Destruction of biodiversity - flora and fauna

4) Eg:- Tigers impacted in Panna Tiger reserve

4) Lack of global examples explaining the efficacy of interlinking river projects.

Alternate methods to interlinking rivers

1) Water-harvesting. Preserving water resources and prudent use of resources.

2) ~~Rain-water harvesting~~. Water recycling - to utilize water for plantations

2) Limiting ground water exploitation. and

4) Prompting rejuvenation of wetlands, mangroves.

Thus, interlinking rivers is an ambitious project that requires thorough Cost-benefit analysis, EIA, SIA to validate its necessity.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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

Coal-based power plants are known to emit harmful gases and impact human populace habitating in the region in multi-faceted manner.

Impact of shift from coal-~~bearing~~ based power plants to renewable energy projects.

1) Employment. Coal-based power plants require high labour across times, in comparision to RE plants.

2) Decreased air pollution in the region will increase the lifespan of human populace.

3) Health. Coal generation impacts health, thus shift to RE plants will safeguard health of populace.

4) Electricity charges can be adjusted in accordance

Next IAS ID: RTETP221185_TC075, 28-08-2023 09:15 PM

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to generation charges, thus influencing entire livelihood

5) Decreased migration due to alternative allied industry development to cater to RE projects.

Way forward:

1) Timelines to shift towards RE plants
2) Industry collaboration to protect jobs and deployment of technology.
3) Seamless transition from coal based plants to RE plants to reduce losses

Thus, shift from coal based to RE based power plants will influence human-development in states.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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

The determination of soil will enhance the fields of construction, agriculture etc, thus establishing its importance

Importance of temperature and precipitation of soil:-

1) Temperature:-

1.1) Determine the chemical properties of soil.

1.2) The growth of vegetation in the region

1.3) The economic potential of the region

2) Precipitation:-

2.1) The water holding capacity of soil (Aquifer / Aquiclude)

2.2) Ability to grow vegetation

4 Eg:- Bhuvan-Panikulam by IIT Kanpur.

2.3) Soil-health.

Next IAS ID: PTEP221185, TC075, 28-08-2023 09:15 PM

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Other factors influencing soil properties:

- Climate
- Soil Type
- Rainfall
- Age.

Thus, temperature and precipitation are most critical factor in determining soil properties.

NEXT IAS

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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

In the Indian Ocean region, the incidence of cyclones in Arabian Sea are increasingly evident, thus causing a concern in coastal states.

Reasons for rise in cyclones in Arabian Sea:

1) Rise in temperature: The temperature in Arabian Sea are trending upwards., conducive to cyclones
   - Refer to the IPCC report

2) Rising salinity: The lack of freshwater joining Arabian sea. is increasing cyclone pressure.

3) La-Nina: The phenomenon increases the potential of cyclones in Arabian Sea
   - Refer Triple-dip La Nina.

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4) + IOD :- The difference in temperature establish the reasons for cyclone incidence

5) Climate change:- The weather patterns changed due to global warming.

6) Air movement:- The movement of airmass and jet streams an influencing the cyclone distribution in Arabian Sea.

Thus, multitude of geophysical factors an influencing for severe cyclones in the Arabian Sea region.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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 land of diverse cultural practices with exquisitive uniqueness spread across the nation

Distinctive cultural diversity in Southern India:-

1) Temple architecture:- Southern India practiced Dravida architecture, which is distinct from Nagada architecture
   ↳ Ex:- Nalanalapuram temple, Vijayanagara temples

2) Megalithic traditions:- The history of megalithic tombs are unique to Southern India, especially in Bronze Age
   ↳ Ex:- Kupigallu, Tekkalkota

3) Dravidian language:- The history and antiquity of the languages differ from Languages of India

4) Civilization:- The recent excavations of Keezhadi and Porunai civilization present unique development.

5) Marriages:- Southern India are known to practice

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cross-cousin marriage, which isn't followed in the rest of India. Ex:- Prevalence of genetic disorders - Arthritis, Vaishya Tamil Brahmins

Cultural unity of Southern India with rest of India:-

1) Shared values - Southern India and rest of India are bound with the constitutional values of India.

2) Religious diversity - India irrespective of region possess harmonious religious diversity spread across the religions

3) The process of globalization, industrialization has further united the populations of India.

4) The cultural practices of dressing habits, food consumption etc, remain similar across the Indian.

While Southern India possess certain cultural uniqueness, India is bound by rich cultural ethos that establishes itself with heritage with historical linkages.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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.

While UN declared that India is most populous nation in the world in 2023, NITI Aayog's MPI provided that 15% of population are poor in India

Poverty restricts individual's ability to ~~be~~ break free from the cycle in myriad ways, such as:-

-i- Access to resources - The poor households won't be able to afford basic services:- Education, health

-ii- Restricted liberty - Low income means restricted consumption and savings.

-iii- Mental pressure to improve access to better livelihood strains productivity.

-iv- Susceptibility to macro-economic shocks
↳ Ex:- Migratory worker crisis during COVID-19

-v- Indebtedness - Stuck in vicious cycle of poverty
↳ Ex:- Bhatta - Goti system.

Next IAS ID: RTTP221185, TC075, 28-08-2023 09:15 PM

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Similarly population growth strains resources via:

-i- Limited state capacity - The financial resources of state are limited, thus distribution becomes difficult.

↳ Ex: Distribution via NFSA to 60% population

-ii- Human resources - Increased population strains public sector services in social sphere.

↳ Ex: Doctor-to-population - 1.4:1000 (WHO - 3:1000)

-iii- Agricultural pressure - burgeoning population require high food productivity, strained by limited land parcel.

↳ Ex: Agriculture Census 2015 - decrease in cultivated land

-iv- Water demand - While water demand is rising, the subsequent supply is diminishing.

↳ Ex: Water Aid report ranks India - 120/122 nations

Thus the poverty and population growth are interlinked are required policy approaches that can tackle both issues holistically, such as education (NEP 2020), women empowerment (Mission Shakti)

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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 is known for the rich heritage for internationalization of education with the iconic establishments of Nalanda University and Takshashila university.

Impact of internationalization of education on Society:

1) Demographic dividend - The young population of India will have access to plethora of educational opportunities

2) Best practices - Sharing and learning the best practices of teaching around world. Ex: Germany's vocational education

3) Women empowerment - Internationalization empowers women to aspire for better opportunities in global space.

4) Skilling - Internationalization rekindles the spirit of upskilling and reskilling to cater the demands of foreign students.

Next IAS ID: PTEP221185, TC075, 28-08-2023 09:15 PM

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Impact of internationalization of education on fostering cultural exchange

1) Cultural practices:- Education provides itself as breeding ground to share but practices.

Ex:- Potluck - food sharing, festivals - Diwali, Halloween

2) Modernization:- The values of the world will turn towards progressive values. Ex:- Culture of debate

3) Globalization of local practices:- Providing a global platform to showcase local practices.

Ex:- Yoga at UN, NewYork, PM

4) Medicinal knowledge:- The traditional knowledge can be further developed. Ex:- Siddhi, Sowa-Rigpa

Thus, the recent step by UGC to internationalize education will empower the prospects of India as "Vishwaguru".

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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 ancient art forms of India are culturally and materially rich forms establish the vibrant heritage of India.

Feature of Gandhara art:

1) It is developed in 4th century BC
2) It is mixture of Graeco-Bactrian and Roman elements
2) Material used. Terracotta, blue shades
4) Ornaments and dressing are intricately developed with exquisite precision.
5) It also contains portraits of Boddhisathva
6) Examples - The laying Buddha in Malaysia is the largest in that posture across the world

Next IAS ID: PTEP221185_TC075, 28-08-2023 09:15 PM

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Feature of Nagarjuna art :-

1) It is established in the 1st century BC
2) Material used - soapstone (red)
3) The face of Buddha became prominent in this school of art.
4) This school was high on symbolism with rich tapestry, detailed division on head.

Influences of Amaravati art on Gandhara and Nagarjuna.

1) Amaravati art gained prominence in Maharashtra region
2) Material used - Bronze and white soapstone
3) Focus on developing structures with intricate specification in precision art form.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

While Amaravati art influenced Gandhara and Mathura art, the art forms have developed with fusion from multiple regions. In developing the forms to larger extent.



Next IAS ID:TETR221185_TC075, 28-08-2023 09:15 PM

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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

Eyland Industrial revolution is a watershed moment in the human history as it marked towards greater human development across sphere

Economic impact of England's Industrial revolution:-

1) Positive:-

1.1) Catapulted economic growth of nations

1.2) fostered innovation spirits. Eg:- Spinning wheel, Power

1.3) Broad-based trade of items.

1.4) Specialization and division of labour - increased productivity.

1.5) Women as integral part of economic development.

2) Negative:-

2.1) The seeds of inequality were sown.

2.2) Skewed development. Only few nations of Global north benefitted from industrial revolution

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

2.3) Prioritisation of economic development at all costs had detrimental impact on environment.
↳ Ex:- Melting curve CO_2 emissions

Social and cultural impact of Industrial revolution:-

1) Positive:-
1.1) The class difference became economy based, leading to easier mobility.
1.2) Aspirations for better livelihood.
1.3) Healthcare - Enabled long-life with medical care
1.4) Education accessible to broad population
1.5) Expanding social circle beyond kinship and family

2) Negative:-
2.1) Inequalities fueled differences among the members of society. Ex:- Proletariat, Bourgeoise
2.2) Divisions within society along communal and regional lines

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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2.3) Advent of colonialism - The wrath of colonialism left an ever-lasting imprint on host nations

2.4) Indigenous tribes were forcefully assimilated or exterminated. Eg: Neo-Columbian exchange.

2.5) Proliferation of child labour

2.6) Change of economic practices

Reciprocity → Market based.

Thus, England's Industrial revolution formed the shift in development framework of the world, which enabled multi-faceted socio-cultural and economic impact across populations.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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.

Colonial period was a tumultous period for the natives as every aspect of life was upended with colonial practices

Social reform and ideological struggle against backward traditional elements.

-i- ~~Reviving~~ Abrogation of Sati by colonial powers was met with fierce ideological struggle by natives

-ii- Revivalist movement to ensure adherence and conformity to traditional social values.

-iii- Isolationist tendencies of tribal population

↳ Eg: Pahariyas

-iv- Dividing the population along caste based groups

↳ Eg: Differential punishment for untouchables & solitary confinement.

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Social reform and ideological struggle against hegemony of colonial culture:-

-i- English law practice introduced by Warren Hastings wasn't well accepted due to differential religious codes.

-ii- Restriction on differential application of laws for locals and non-locals agitated local populations

-iii- Dressing style and food practice against traditional consumption.

-iv- Propagation of racist ideologies

-v- Colonial ethnographies establishing the cultural traits of tribes in an ethnocentric manner.

Emergence of distinct cultural identity and national consciousness :-

-i- Resurgence of traditional values as colonials embarked on hegemonic structure.

Next IAS ID: PTTP221485 TC:05,2023 09:15 PM

-ii- Political and social groupings to promote traditional practices. Eg: Arya Samaj, Dev Samaj

-iii- Petitioning against colonial hegemony

-iv- Promoting nationalistic events to promote socio-cultural identity. Eg: Shuddi movement

Thus the colonial culture had revived the emergence of unique cultural identity and national consciousness.

Next IAS ID: PTTP221185, PS075, 28-08-2023 09:15 PM

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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 geophysical phenomenon which alter the climatic conditions in a region for a period of time.

Conditions for temperature inversion
- Lack of duo
- Cow temperature, above melting point
- Still air
- Minimal humidity.

Impact of temperature inversion on atmospheric climate:

1) Temperature inversion restrict the movement of air-mass
2) Jet stream movement above 30°-60° N/S will be influenced with temperature inversion.
3) Pressure in the region will be influenced due to inversed relation with temperature.
4) Temperature within the region will be abnormal and aberrative during the inversion period.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

Implication of temperature inversion on local weather patterns:-

1) Lower temperatures:- Temperature inversion results in lowering the temperatures in the region.
2) Will hinder the formulation of rain clouds due to unsuitable conditions.
3) Traditional weather patterns will find it difficult to forecast climatic conditions during inversion period.
4) Circulation of winds will be influenced, thus altering the weather patterns - [Ex:] Restricts growth of plants.

Implication of temperature inversion on air pollution:-

1) Temperature inversion increase air pollution in the region due to suspension of air particles for long period.
2) Lack of active winds will further exacerbate the

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pollution levels in the affected region

3) Smoke and particulate matter will be prevalent in the atmosphere.

Way forward
- Smog towers - Eg: Delhi
- Air purifiers / masks
- Hazard mapping
- Information dissemination

While temperature inversion is a natural phenomenon, adequate responsive measures can be planned and executed to minimize the ill-effects in the region.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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 species are important elements of ecotone and are recognised through Mangrove Alliance for Climate (MAC) establishment at COP-27.

Geographical factors responsible for mangrove vegetation in India:

1) Salinity - Water levels must contain salinity and also support brackish water levels.

2) Access to nutrients - Mangrove forests can sustain in harsh environments, but needs nutrients through tidal wave

3) Coastal environment - Mangroves are prevalent across coastal borders in India

Distribution - Gujarat, Andaman & Nicobar, West Bengal

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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4) Latitudes. Mangroves grow in the tropical areas across the world, there being suitable for Indian

5) Temperature. Mangroves are resilient to coastal temperatures and withstand strong winds.

Impact of climate change on mangrove vegetation:

1) Increasing salinity - The salinity is hampering the development of mangrove vegetation

2) Natural disasters - The increasing incidence of cyclones, heavy winds are destroying vegetation

3) Changing temperatures along the tropical areas are threatening the survival of mangroves.

4) Rising sea-levels altering mangrove vegetation landscapes as ghost forests.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

Measure taken by government:

1) Coastal Regulation norms

2) Conferring mangrove protection status

3) MISHTI - mangrove protection announced in Budget 2023-24

4) Supporting tribal habitats in the region

~~Yeh~~ Bun-bibi

Way forward
- Climate adaptation mechanisms
- fortified structures to minimize influence of rising sea-level
- Afforestation in conducive regions

Mangroves an quintessential species supporting wide range of flora and fauna, thus needs to be protected through policy measures.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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 2nd highest sugar producing nation in the world and is essential aspect in driving economic and environmental ambitions

Geographical factors influencing location of sugar industry:

1) Access to water resources - Sugar is water-intensive product, thus requires high volume of water

↳ Eg: Reason for water depletion in Vidarbha

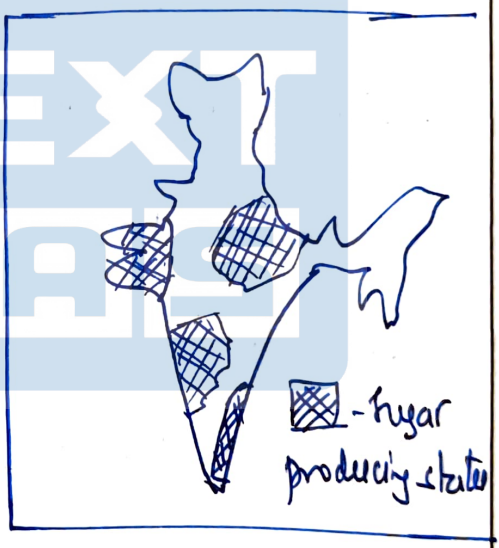


fig- Sugar production in India

2) Export potential - Sugar produced is major component of export basket, thus access to modes of transport becomes critical.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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3) Temperature and rainfall. Sugar production requires moderate temperatures and rainfall with perennial water availability.

Economic factors influencing location of sugar industry:

1) Policy framework. Offering conducive subsidies, rebates and political stability to increase revenues.

2) Availability of government support to protect prices of the sugar commodities.

3) Industry availability. To convert sugar products to fuel. Eg: Maharashtra.

4) Labour availability to promote sugar plantations

5) Parcels of land. Sugar production requires investment, which either require land parcels of land or consistent government support.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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Role of sugar industry in growth contributions:

1) India:

1.1) Ensuring food security across the world

1.2) Environmental needs with shift to renewable sources of energy. Eg: Biofuels, ethanol blending.

1.3) Livelihood to farmers and export potential.

2) World:-

2.1) Supply chain linkages fostering country collaborations

2.2) Economic collaboration between countries

2.3) Developing market opportunities through innovation

Thus, sugar industry plays an integral part in development of global and national industries.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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 बढावा 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 can be understood as agricultural practices conducted in arid and semi-arid regions to ensure food availability and secure livelihoods in agriculture

The key strategies used in dryland farming to overcome water scarcity and maximise agricultural productivity are-

1) Selection of crops - Dryland farming supports selective crops and it is prudent to grow such crops (Eg: Millets, Bamboo etc)

2) Skilled labour. The farmers must judiciously use sparse resources to sustain growth of farm over period of harvest.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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3) Water harvesting - Water scarcity can be overcome through water harvesting. Eg: Rajasthan

4) Recycling of water to utilise water for farming needs and ensuring growth of farms.

5) Utilising fertilisers in minimal levels to reduce water requirements.

6) Crop tillage and planting should have adequate spacing such that the plants have adequate resources.

Need to promote dryland farming in India.

1) Desertification - Indian landscape is witnessing desertification, thus requires dryland farming

Eg: ISRO's desertification atlas - 29.77% land is in process of desertification

2) Water stress - Indian farming land is witnessing shrinking water levels, thus dryland farming offers a sustainable alternative.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

2) Promoting development of millet through production via dryland farming

4) Mitigate ~~Affect~~ migration from arid and semi-arid regions due to increasing food insecurity in region

There are several steps that can be taken to promote the usage of dryland farming:-

1) Engaging communities on benefits of dryland farming
2) Financing mechanisms for dryland farming
3) Contract farming with private capital enabling technological adaptation.
4) Academia-linkages to grow species in arid regions

Thus, dryland farming provide an exciting opportunity to ensure both food security and sustainable practice in India

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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 in 21st century are still prey to societal and economic discrimination despite several movements in past and present are looking to alter the paradigms.

The diverse approaches of contemporary women's movement beyond traditional methods :-

1) Social-media :- Technology enabled a voice to an individual, thus leading women's movements.

Eg. #Metoo, Selfie with daughter campaign

2) Women Pressure groups :- Collection of women looking to alter the landscape.

Eg. Pakistan punishing rape accused with legislative backing through pressure group.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

3) Accessing rights - Women's movement through legislative rights to protect her interests.

Ex: POSH act, Domestic violence, Reproductive

4) Prompting government interventions - Looking for government institutional intervention in sensitive cases. Ex: NCW analysing Manipur conflicts (2023)

Contribution of contemporary women's movement:-

1) Courage :- The ability for women to speak up, stand for one another in support.

2) Women empowerment:- Active role played by women to protect or expand their rights.

3) Challenging societal norms. Women's movement provided support that rigid norms can be challenged

↳ Ex: Workplace abuse, harassment etc

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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4) fight for egalitarianism - Prompting women to equal recognition across sphere. Ex: Cinema - equal pay

Challenges in contemporary women's movement:-

1) Still segmentary - Large population of women are reluctant to take part in women's movement.

2) Leadership - The lack of hierarchy through organizational setup prevents coordinated activities.

3) Limited reach - The contemporary women's movement is restricted to Tier I and Tier II citi

4) Lack of unilateral support for women's movements divides opinions and interests

However, contemporary women's movement continue to strive for equality across sphere through deployment of diverse approaches.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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 is defined by MN Srinivas as the values incorporated due to 150 year rule of British in India.

Forces of modernization eradicating social evils:-

1) Modernization prompts for humanism, egalitarianism and welfare for all segments of population.

2) Modernization strives for equity across all sets of population.

3) Globalisation, Industrialisation amplified by modernization restricts propagation of social evils
   - ↳ Eg: Migration leading to marriage based on consensus

4) Constitutional and Legislative safeguards- Modernization

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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has influenced political narratives.

Eg: Article 23- Bonded labour, Article 17- untouchability

5) Awareness- Modernization enabled education, thus increasing awareness on protection mechanisms

Forces of modernization threatening cultural values & ethos

1) Individualistic- Modernization promote looking inwards for pleasure, satisfaction.

2) Migration patterns reveal that parents are often left-alone, thus abrogating Pitru-Rina.

3) Apathy- The rising communal tensions and inequality is backed by apathy/lack of concern of others

Forces of modernization amplifying cultural values & ethos

1) Nationalism- Erection of cultural values and ethos

Eg: Hindu Mahasabha.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM
NEXT IAS

2) Revivalist tendencies: The notion to revive ancient cultural values through materialism.

↳ Ex: Tibet cultural aspects are shared via market economy.

3) Cultural assertiveness. The cultural values/ethos are promoted by nationals. Ex: Dressing style

4) Anti-colonial tendencies. To protect cultural norms against colonial rule. Ex: Made in India

While modernization is aiding in eradication of social evils, the roles of westernization are growing in society, thus replicating the role of modernization.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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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 defined by W.C. Scott as the compartmentalization of nations into units and development of antagonistic feelings against other group with immediate geographical boundary as reference.

Positive relationship between regional disparity and sentiments of regionalism:

1) Job/employment policies - The skewed policies of Haryana and Andhra to provide employment to locals.

2) Intolerance against migrant workers.

Ex: Bonded labour in Odisha. - Jharkhand. Gotipua dance

3) Inequality: The divide in prosperity drive regionalism tendencies. Ex: Karnataka - technological advancement.

4) Alienation of North-eastern states due to regionalism.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

↳ Ex:- Barbaruah committee - situation of North-east region

5) Ethnic divisions: The regional disparity in development leads to sentiments of regionalism

↳ Ex:- Kuki-Meitei conflict in Manipur (2023)

- Inverse relationship between regional disparity and sentiments of regionalism

1) Equitable development - Shared development promotes integration. Ex:- Kerala - highest migrants.

2) Jharkhand rebellion is due to negligence of development.

3) Despite economic development, ~~Andhra~~ Telangana sought for independent state, thus acting against regional disparity.

Next IAS ID: PTTP221185, TC075, 28-08-2023 09:15 PM

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Regionalism against the idea of nationalism

1) Regionalism can provide impetus to nationalism if the development and distribution of resources are equitable

2) Regionalism can go against nationalism if the development trajectories against populations of two places

MN Srinivas has provided following suggestions to promote regionalism towards nationalisation

① Dividing territories based on cultural aspects

② Jobs for locals in certain fields

③ Collaborative development.

Regionalism is imminent across all parts of society, which must be treated with cautious developmental approach.