Next IAS ID: PTTP220310, TC075, 15-08-2023 07:03 PM

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(To be filled by candidate)

Name of Candidate : Shubham Singla

Roll No. : PTTP220310

Registration Number : ..... **Date of Examination :** 15 / 08 / 2023

Time - 3pm - 6pm

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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[To be filled by the EXAMINER]

Evaluator's response
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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

MACRO COMMENTS

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DONT'S

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

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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.
6. Handover your QCA Booklet personally to the invigilator before leaving the examination hall.

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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 has been connected to foreign countries via ancient routes such Maritime Silk Road, promoting trade and culture.

Contribution to Exchange and Dissemination of Culture →

① Arrival of Selecus Nikator in Mauryan times promoted European tradition – Book Indika written.

② **Religious Philosophies**

- Spread of Buddhism to Central Asia via trade

  eg Bamiyan Buddha in Afghanistan

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Spread of Buddhism to Srilanka, Malay Peninsula, South East Asia

③ → Spread of Jainism

④ → Islam came to India via Mehmud of Ghazini, Mohd Ghurid

⑤ Trade Routes → Ideas of liberty Equality from west

⑥ Travellers like Fahein, Hiuen Tsang came to India and took away Indian traditions

Eg Books Si-kuo-ki, Nalanda learnings

⑦ Spread of Painting such as Pala miniatures, via trade

⑧ Christanity came to India due to trade routes

Eg Church of Vellankani

Trade contributed to spread of Indian contact with other world countries.

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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 was launched on August 8, 1942 from Gowalia Tank in Bombay.

As Peoples Movement
- ① Participation of students
- ② Workers refused to go to work
- ③ Civil servants did not quit but refused to act / follow orders

However after arrest of all leaders on August 9, women leadership made it successful.

① Underground protests organised

② Underground radio operated from Mumbai - Usha Mehta was announcer

③ Sucheta Kriplani organised mass regularly broadcasted from radio.

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(4) Sarla Devi Chattopadhyay was important leader in organising underground protest

(5) Sarojini Naidu - Created poems to keep momentum and people motivated eg Bazaars of Hyderabad

(6) Many women leaders were shot down by British but created a feeling of nationalism among masses eg

Other leaders like Biju Patnayak Ram Manohar Lohiya also shaped the movement and made it a success.

Quit India Movement was the last nail in coffin and led to India's 'Tryst with Independence' on 15th August, 1947!

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'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

Post-Independent India witnessed rapid scientific development that led to modernity and success of missions like Chandrayaan III.

Scientific Development	Modernity Path.
① Nuclear Technology by Dr. Homi Bhabha	① India's Nuclear Bomb - Deterrence ② Nuclear Energy (3 stage nuclear programme)
② Space Development led by Sarabhai	③ Lauch of PSLV, GSLV and other satellites. ④ TV communication possible ⑤ Missions like

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	Chandrayaan, Mars Orbiter Mission Gaganyaan
(3) Establishment of IITs, IIMs	(6) Good quality engineers, (7) Entrepreneurship promotion eg Bharat Pe.
(4) Computer Revolution (1985)	(8) Digitisation - UPI, SWAYAM, Tele Medicine, UMANG.
(5) Agriculture development (Green Revolution	(9) GM seeds (Bt-Cotton) (10) Use of Drones (11) Fertilizers use

Need — Promote Make in India
— Reduce Import Dependency
— Investment in R&D (0.5% of GDP - Economic Survey only.

With vision of Atmanirbhar Bharat India is on track to achieve developed India by 2047 (Panch pran by PM).

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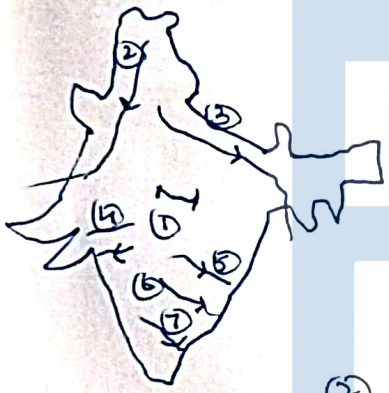
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अन्य क्षेत्रों में जल संकट की समस्या को हल करने के लिए नदियों को आपस में जोड़ने की व्यवहार्यता पर चर्चा कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

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

The **Ken- Betwa river linking** project has brought the focus on interlinking of rivers.

National Perspective Plan of 1970 promoted river interlinking projects



① - Section of Ken Betwa river linking in Madhya Pradesh and Uttar Pradesh.
② - Indus River
③ - Ganga ④ Narmada - Tapi
⑤ ~~Krus~~ Godavari ⑥ Krishna
⑦ Kaveri

Resolve the water Stress →

① Water ~~from~~ to deficient region from surplus region

eg Bundelkhand Development due to Ken- Betwa.

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② Promote agriculture - Productivity Irrigation

Eg Indira Gandhi Canal in Rajasthan.

③ Reduce urban floods and drought

Eg Drought in Maharashtra Raigad could be resolved.

④ Promote Economic Activities
- Provide clean drinking water
- Water for Industrial development

Issues →

① Huge Cost of Project

② Cost and Time overruns

Eg Ken Betwa cost doubled since 2014.

③ Environmental Clearances delay

Eg Submergence of Panna reserve

④ Feasibility studies difficult to conduct

Need for proper and time bound Interlinking of rivers to address ~~them~~ extreme weather events.

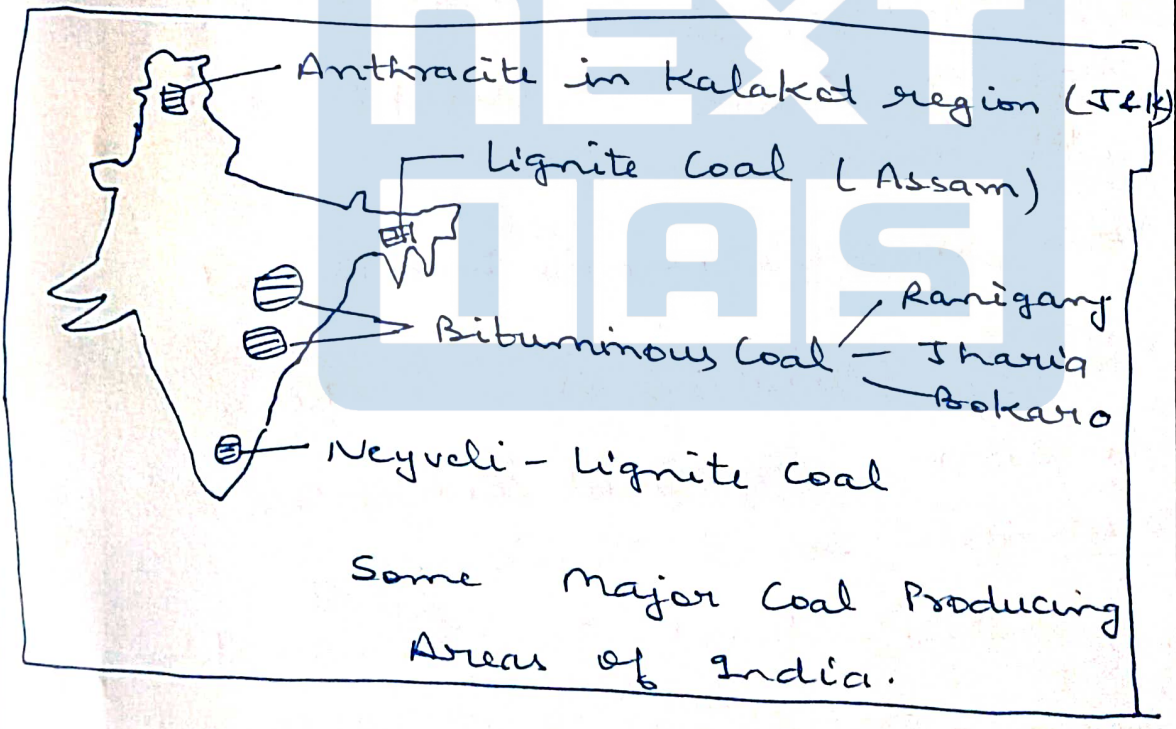
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कोयला आधारित विद्युत संयंत्रों से नवीकरणीय ऊर्जा उत्पादन की ओर गमन का संरचनात्मक परिवर्तन कोयला समृद्ध राज्यों में मानव विकास को कैसे प्रभावित करेगा? (150 शब्दों में उत्तर दीजिए) 10 अंक

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

India has been granted with 5th largest coal reserves in world but is still a major importer. The IPCC report highlighting 1.2°C rise has prompted shift towards phase down of coal.



Some Major Coal Producing Areas of India.

Positive Impact of Shift to Renewable Energy.

(1) ↳ Economic development in new emerging areas – Solar, Wind

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② Reduce Environmental Pollution due to coal dust, Leachates in Groundwater
Eg Arsenic in Bengal water

③ Reduce Deaths due to mining
Eg Meghalayas Rat hole mining

Negative Impact → Decreased Revenue for State

① Cost of Electricity may Increase

② Unemployment - Tribal areas due to closure of mines → Unskilled

③ Poor socio-economic Development

④ Rise of Naxalism due to poor conditions Eg Red corridor.

⑤ Violence - Social Disharmony

India's push for renewable energy (500 GW by 2030) to meet Panchamrit targets needs to be covered with industrialisation of coal bearing states.

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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 basic foundation for all forms of life on the earth.

Role of Temperature in Soil Properties

1. Cool Humid Climate – Podzolic soil
2. Hot Humid Climate – Fe, Al in soil
3. Frequent High and Low temperature – Laterite soil
   Poor in organic matter
4. Moderate Temperature
   - Promote micro organism growth
   - Hence good in humus.
   - Eg: Alluvial soil

Role of Precipitation →

1. High Precipitation – Soil erosion
   ↓
   Poor in nutrients
   Eg: Montane soil

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② Increased dead decay matter due to high rains
Eg Tropical forest

③ low precipitation – Alkalisation Salinisation of Soil
Eg Desert soil

④ Effect Calcification, decalcification processes based on intensity of precipitation

⑤ Red Soil – Hydrated form vs Yellow soil in Dry form

Other factor Also Important
① Relief – slope leads to Erosion
Plains – Alluvial (Rich)
② Parent Rock – Black Soil due to basalt lava. Plateau

Soil is determined by various factors with Temperature and precip-itation as major factor. Soil needs to be Conserved in line with Bonn Challenge (350 mn Hectares by 2030)

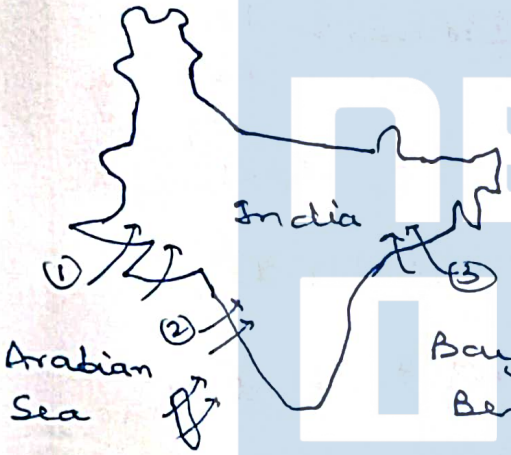
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अरब सागर में प्रचंड और तीव्र चक्रवात एक नियमित घटना क्यों बनते जा रहे हैं? उदाहरणों सहित सिद्ध कीजिए।
(150 शब्दों में उत्तर दीजिए) 10 अंक

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

The frequency of cyclones in Arabia Sea has increased by 52% in last two decades as per IMD.



① Cyclone Biparjoy in Gujarat
② Cyclone Tautak from lakshadweep to Mumbai
③ Amphan in West Bengal

Reasons for Increased Severe and Intense Cyclones

① Heating of Arabian Sea due to Global Warming

Eg 1.5°C warmer as per IPCC (Arabian Sea).

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② More cyclones enter from Bay of Bengal to Arabia Sea

③ Increased duration of cyclones

eg> Tauktae travelled from lakshadweep to ~~Arabian~~ Mumbai

④ Less polar water addition from Antarctic.

⑤ Variability of monsoons - Less cooling of Arabian sea.

Measures
① Early warning system
② ~~IPCC~~ NDMA guidelines follow
③ Awareness and Training
④ Rehabilitation of people
⑤ Better prediction system using Satellite and Radar data.

Need to reduce cyclone impact and reversing climate change by adopting Mission LiFE for disaster free future.

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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 represents a multi Cultural society where Southern and Northern states depict both Salad bowl and melting pot theory of diversity.

Southern States as Distinct Cultural Unit

① Language — Tamil, Telugu, Kannada — Not spoken in other parts
   └ opposition to Hindi
   eg: Use of Hindi on Amul Curd Packet

② Dravidian Identity considered Distinct

③ Literature such as Tolkappiyam, Patkanakku (Sangam Assemblies) considered unique.

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(4) Use of Vimana and Dravida style of Temple are unique
eg Ratha temple at Mahabalipuram

Part of Rest of India : Not Distinct Cultural Unit

(1) Prevalence of English across South and India is common.
(2) Bhakti Movement influenced both North and South India
eg Alwar, Nayannar, Tulsidas etc.
(3) Ramayan, Mahabharata in Tamil also present
(4) Concept of worship place
└ Temple present at both places

The organisation of Kashi-Tamil Sangam will ensure further coherence and assimilation of Southern culture as part of Azadi Ka Amrit Mahotsav

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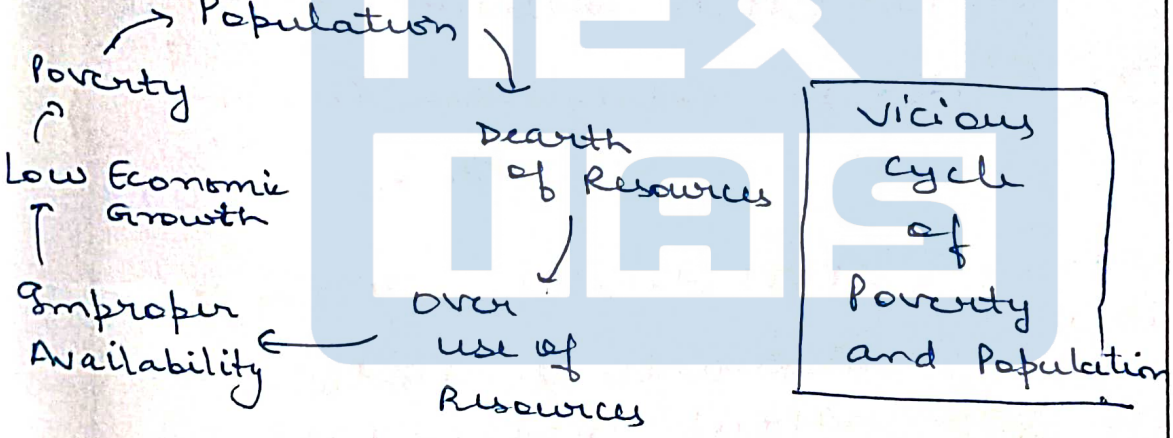
गरीबी और जनसंख्या वृद्धि एक दुष्चक्र में फँसी हुई है, जहाँ गरीबी व्यक्तियों की इस चक्र से मुक्त होने की क्षमता को सीमित करती है, जबकि जनसंख्या वृद्धि संसाधनों पर दबाव डालती है। विवेचन कीजिए।

(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.

India's poverty as per recent multidimensional poverty index is 16.1 %. whereas UN has put India as the most populous country in 2023.



Poverty leads to more birth due to mindset that more hands will generate more money which leads to over exploitation of resources and affects economic growth leading to unemployment and poverty.

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Poverty Restrict Ability
- ① Poor Education and Health
- ② Unskilled labour
- ③ Cognitive development affected
- ④ Debt → Poverty continues

Population strains Resources
- ① India – 18% population vs Global 2.4% land, 4.5 water
- ② Overexploitation
- ③ Increases inequality
- ④ Per capita resource decreases

Eg Water per capita from 6000 m^3 (1947) to 1500 m^3 (2023)

Measures
- Skill development (PM KVY)
- Awareness generation about contraceptives
- Family planning programmes

Recent NFHS-5 data shows fertility rate has reached replacement level (2.1) Need for development to be guided by "Sabka Sath, Sabka Vishwas" to achieve SDG 1, 2, 3.

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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.

The recent decision to open campus of IIT Delhi in UAE and the focus on internationalization of Education by NEP-2020 is welcome step.

Rich Heritage
① Nalanda and Taxila as modern universities in ancient times

Impact on Society →

① Reduce brain drain - Simultaneous opening of Australian university campus in GIFT city.

② More technological advancement

③ May increase inequalities (Cost of Education in foreign universities)

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④ Increase India's standing as "Vishwaguru"

Foster Cultural Exchange →

① learn culture of other country
② Language and Festivals will merge (Aim of Vasudhaiva Kutumbakam)
⑤ Increased foreign students and faculty - Areas of research will increase.

• Need to ensure inequalities don't increase and providing Scholarship to poor students.

Internalisation of Education needs to be coupled with more **student exchange** programmes, PPP projects and ensure vision of education for all.

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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

Post Mauryan period has influence of Gandhara, Mathura and Amravati School.

Difference between Gandhara and Mathura School of Art

Gandhara	Mathura.
① Greco-Roman influence	① Indigenous Culture reflected
② Use of Grey Sand ~~Stat~~ sandstone	② Red ~~sto~~ sand stone used
③ Theme of Buddhism Prominent	③ Buddhism Jainism Hinduism all present
Eg Bamiyan Buddha in Afghanistan.	Eg Ayudh Vishnu Image

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④ Spiritual Buddha
- Unshaven face
- Half open eyes

④ Delighted Buddha
- Shaven face
- Open Eyes.

⑤ Strong bulky Images

⑤ Simple light art preferred

Influence on Amravati School

① Presence of Buddhism as main art form - Influenced from both.

② Presence of Halo behind sculptures - Mathura influence.

③ ~~Use of white Ratna~~ Patronized by ruling dynasties

Eg Amravati - Ikshvaku and Satvahanas

Mathura, Gandhara - Kushanas

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Some differences :-

(1) Use of white marble in Amravati is prevalent

(2) Amravati influenced from local southern artistic tradition

Hence, all art forms shaped the contemporary art and needs to be preserved.

Art 51A (f) state it is our fundamental duty to preserve our heritage and need to take pride in ancient roots as per Panch pran given by Indian 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

England's Industrial Revolution began around 1770s with introduction of steam engine, blast furnace, post etc.

Tranforming Economic landscape →

① Thrust to Colonialism
- won 7 year global war (1754-63)
- exploitation of colonies

eg (India became exporter of raw material.

↳ Economic Prosperity

② Focus on profit motive
↓
Positive balance of Trade

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(3) Domestic textile industry in India suffered

Eg Cotton gin 300 times faster

(4) Increased focus on transportation for export of goods

Eg Railway line in India in 1853.

Societal Impact →

(1) Shift from rural to urban societies → Due to migration

(2) Agriculture to Industrial workers → Decline in food production

(3) Mercantilism increased

(4) Myt Inequalities increased

Eg Poor condition of workers

(5) Gender equality decreased

Eg Women not allowed to work.

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Cultural Impact :-

1. Spread of Christianity in colonies
   Myth of White man Burden
   Supremacy of white.
2. Idea of Liberty, Equality
   (French Revolution in 1789)
3. No taxation without Representation principle emerged
4. Increased racial discrimination
   eg Slave trade to Africa.

Industrial Revolution changed the pace of development and led to a far reaching impact. It is compared with current AI revolution that world is witnessing today.

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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.

World was witnessing colonialism and emergence of new forms of imperialism in 19th century at hands of European Powers

Social Reform and Ideological Struggle against backward elements and colonial hegemony →

Distinct Identity

① Reforms within Hinduism

eg Reduced animal Sacrifice

① Reduced discrimination against animals.

② Women Empowerment

eg Raja Ram Mohan Roy against Sati

② Women participation in freedom movements

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Sarda Act increased Age of marriage to 14 for girls

Age of consent Act, 1891

Role of Annie Besant, Lakshmi Bai Sarojini Naidu in freedom movement

(3) Focus on Indian culture of vedas

Eg Swami Vivekanand at Conference in Chicago.

Arya Samaj Promoted vedas by establishing DAV schools.

(3) Proud of Indian roots

Bust myth of white supremacy

↓

National Consciousness

Eg Swadeshi movement 1905

(5) Spread of Ideas of Equality, Liberty by English Educated Intelligentsia

(4) Economic Critique of Colonialism by Dadabhai Naoroji raised people Consciousness that India was bleeded by British.

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⑤ Focus on Hindu Muslim unity
End of Caste Discrimination
Focus on peasant Struggle.

Eg Sanyasi Rebellion
Kol Muling

⑤ Wider participation in NCM & 1920 led to Harijan Upliftment programmes

Revolt of 1857 led to national Consciousness.

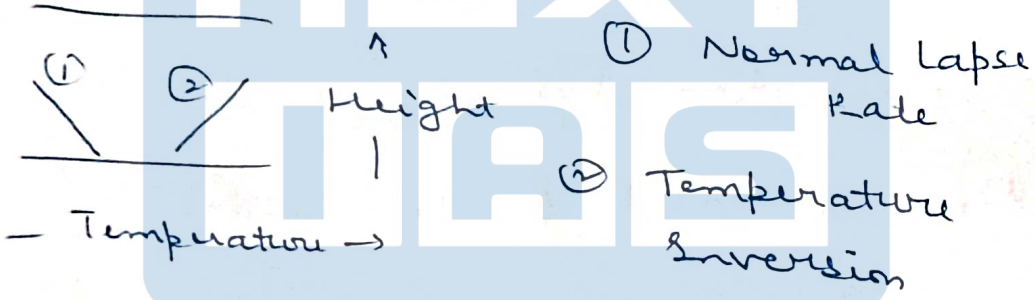
Social reform and ideological struggles ~~too~~ laid basis for nationalism and further mass movement under leadership of Mahatma Gandhi that turned into "Tryst with Destiny" of Independence on 15 August, 1947.

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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 है? (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 normally decreases with height (1°C ~165 m) known as normal lapse rate. However, Temperature inversion is the increase in temperature with height.



Affect on Atmospheric Conditions →

① Occurs during cold winter nights with clear sky and low wind movement

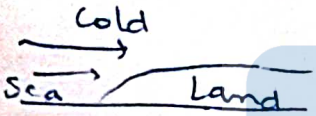
② Creates Cold Condition on ground

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Implication for local weather and Air Pollution →

① Marine Inversion brings cold air from sea - Make land surface colder

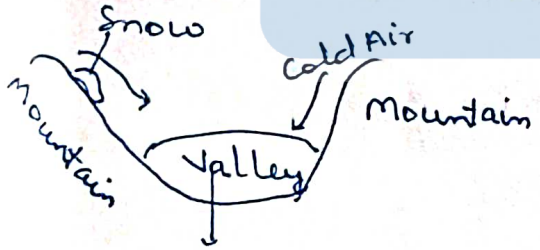


(Marine Inversion)

② leads to dew, frost and fog in surrounding

Eg Radiation Inversion in plains

③ Traps cold air and pollution forming a blanket in valley



Trapped Pollution and cold air

Eg Delhi winter Pollution

(Valley Inversion)

④ Pollutes sea water due to marine inversion → When air disperses carry pollutants in sea.

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⑤ lead to creation of cyclones due to frontal inversion

eg Temperate cyclones

⑥ Protects plant from frost in valley forming layer

Once sun shines, it leads to heating of surrounding air and inversion ends.

Need to study it more carefully to understand its impact and reduce air pollution in Delhi

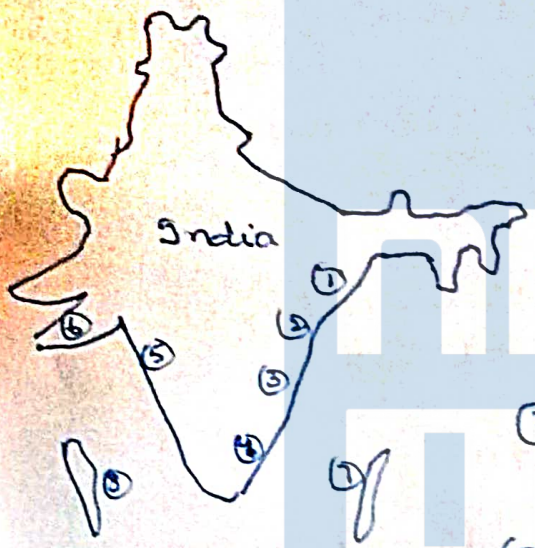
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भारत में मैंग्रोव वनस्पति के लिए कौन से भौगोलिक कारक उत्तरदायी हैं? जलवायु परिवर्तन भारत में मैंग्रोव वनस्पति के लिए किस प्रकार खतरा उत्पन्न करता है?
(250 शब्दों में उत्तर दीजिए) 15 अंक

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

Mangroves are salt tolerant plant varieties that grow in inter tidal regions of tropics.



1-8 region represent mangroves location in India

① - Sunderbans (West Bengal)

② - Brahmani - Baitarni Delta (Odisha)

③ Andra Pradesh

④ Pichavaram - Tamil Nadu

⑤ Goa and Maharashtra

⑥ Gujarat

⑦ A & N Island

⑧ Lakshadweep Island

Factors Responsible →

① India is tropical country (Tropic of cancer passes through)

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① Presence of salty water

Eg Bay of Bengal and Arabian Sea.

② Tides along East and West coast

③

Effect of Climate Change →

① Extreme weather events
└ Cyclone Amphan destroyed Sunderban mangroves

② Tsunami risk - Submergence of mangroves.

③ Temperature changes
└ Heat Stress - Death of mangrove

④ Urban floods and droughts
└ Flooding of Kerala - Affect mangroves

⑤ Rise of sea water level
└ Submergence of mangroves

Eg 20mm rise in sea water (IPCC Report)

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Steps Required :

① **MISHTI scheme** announced in Budget for mangrove plantation

② Mangrove Alliance for Climate Change (MAC)

③ Focus on afforestation, reversing climate change, reducing deforestation

India's mangrove cover increased by 17 km^2 as per Indian State of Forest Report.

Need to achieve **Panchamrit Targets** and fulfilling Paris Climate goal of 1.5°C rise to Conserved mangrove and associated biodiversity to achieve ~~SDG~~ sustainable development

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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 the 2nd largest producer of sugar after Brazil in the world.

Geographical factors →

① Location – Sugarcane is a weight losing raw material

Near Sugarcane producing Areas. — + Productivity depends on crushing of sugarcane within 48 hours of harvest

② Short vs Long Crushing season eg India has sugar industry in south.

③ Population Density in geography

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Economic Factors

1. Market Availability
2. Labour Availability } – Densely Populated Areas
3. Transport connectivity + Port connectivity for exports.
4. Power Availability and cost

Contribution to Growth of Industry

1. Good port and transport network promoted sugar industry in Brazil. Andhra Pradesh, Tamil Nadu in India
2. Huge market in Asia and South America promoted sugar industry in these regions
3. Location within tropics – Promoted sufficient rainfall to grow sugarcane → Sugar Industry within tropics

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④ Labour in Asia and India is cheap

③ Colonialism affect - Plantation Industry promoted historically

Need to ensure that sugar mills are not at loss due to FRP and increasing export will make India a global leader in sugar production.

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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 technique to produce drought resistant or crops requiring less water.

Key strategies used →

1. Use of mulching
   - Retain moisture of soil using mulch covering
2. Focus on traditional methods of irrigation – Rainfed.
3. Drip and sprinkler Irrigation is promoted
   - Eg Average national savings of 30% in India (Agri Census)
4. Drought Resistant crops grown
   - Millets

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⑤ focus on GM seeds are
- Require less water to grow

⑥ Rainwater Harvesting
- To conserve water for later use
- Recharge Tubewells.

⑦ Use of fertilizers and pesticides to reduce risk of pest and ensure Nutrient availability
Techniques like fertigation

Need in India →

① Only 45% irrigated area in India.

② Decreased groundwater table in Haryana, Punjab, UP (Rice, Sugarcane growth)

③ Variability of monsoons increased

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Eg IPCC Report - Global Warming Cause more variability in India.

(4) Flash Droughts in India

(5) Rising Heat Stress

Eg 15% less wheat production in 2022 due to heat waves (IMD)

Need to focus on R&D to introduce dryland farming, ZBNF and increase farmers income as per Ashok Dalwai Committee

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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.

The women's movement in modern times has led to more empowerment and reduced exploitation.

Traditional methods
- led by leaders (No mass participation)
- Use of legal methods

Contemporary movements leading to Diverse Approaches
- ① Use of Social Media
  - eg: Me-too movement

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(2) Wider Participation of all types of women

Eg Anti Dowry movement in India in 1977.

(3) Demand for political rights

Eg 1st time 2 women MLAs in Nagaland.

(4) Participation across caste and class

(5) Use of slogans, awareness campaigns, legal forum.

Eg Anti Arrack Movement in 1970

(6) Rise of New women leaders

Eg Fatima Bibi and Chaavi Rajawat as role model for reforming Panchayats

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Challenges →

1. Fake news via Social Media
2. Objectification and Commodification of women by media
3. Rise of false cases in case of dowry, domestic violence
4. Delay in filing of cases reduces legitimacy.

Ensure He-4-She campaign, creating awareness, involving men as changemakers with more representation at political economic and social level to make women movement success.

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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 the adoption of new ideal of liberty, equality based on interconnected world.

Eradication of social evils

↳ Caste System relevance reduced - Industrialization Homogenization

↳ Child marriages reduced (30% as Census 2011)

↳ Women Empowerment

└ Sati Abolished

└ Equal Right 2 vote.

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Threatened Cultural Values

(1) Marriage as institution broken - Rise of Divorce.

(2) Respect for elders reduce

Eg Teachers mistreated by students in zoom call

(3) Religious intolerance increased

Eg social media to create rumours (Nuh Violence)

(4) Fake news - social Harmony Brotherhood affected

Eg Tamil Nadu Migrant fake news

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Not Threatened →

① Feeling of unity increased
Eg watch cricket | IPL

② Contacts with relatives increased via social media

③ More political awareness
Eg Government scheme.

④ Religious values increased via social media
Online donations

Need to regulate modernisation process to ensure social evils removed without compromising Cultural ethos under PM's Call for taking pride in our roots.

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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 the attachment to one region

Relationship Regional Disparity and Regionalism

Disparity → Feeling of Relative Deprivation

Regionalism — Subjective Realization of Objective Reality

Disparity promotes regionalism

Eg Belgavi in Karnataka

Telangana formation

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Antagonistic to Nationalism

(1) Son of Soil promotes

Eg UP workers beaten in Maharashtra

(2) Sense of unity and integration affected

(3) Use for political gains

Eg in Maharashtra over Belgavi°

(4) Leads to Social Disharmony Violence, Riots

(5) Create Secessionist Tendency

Eg Khalistan

Greater Nagalim

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Not Against Nationalism

(1) Lead to Regional Development

Eg Telangana Developed

(2) True aim of Democracy achieved

(3) focus on equitable development socio-economic

(4)

Regionalism if turns violent need to be dealt with iron hand to ensure integrity of India.