Next IAS ID: GSMACT24A1183, ANV2401, 01-09-2024 07:15 PM

NEXT IAS

anubhav 2024

(To be filled by candidate)

TEST CODE : ANV2401 **Test No. : 01**

Name of Candidate: AAKASH Mobile No. [redacted]

Roll No. : ..... Start Time 3:00 PM End Time 6:00 PM

Date of Examination: 1-09-2024 Medium : English ☑ Hindi ☐

Q. No.	Maximum Marks	Marks Obtained
1.	10	
2.	10	
3.	10	
4.	10	
5.	10	
6.	10	
7.	10	
8.	10	
9.	10	
10.	10	
TOTAL MARKS - 100		

Q. No.	Maximum Marks	Marks Obtained
11.	15	
12.	15	
13.	15	
14.	15	
15.	15	
16.	15	
17.	15	
18.	15	
19.	15	
20.	15	
TOTAL MARKS - 150		

GRAND TOTAL - ...../ 250 EVAL CODE: ..... EVAL DATE: .....

GENERAL INSTRUCTIONS

1. Immediately on receipt of the QCA 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.
2. Candidates must mention all relevant details like Name, Email, Roll No, Mobile, etc. in the space allocated.
3. Candidate is expected to attempt all 20 questions within the given timeline.
4. Answers must be written in the medium authorized at the time of admission.
5. Candidates must write answers for the specific question under the respective question itself. Any answer written outside the space allotted may not be given credit.
6. Please write neatly. Avoid illegible writing.
7. Do not write/mark irrelevant matters in the QCAB.

सामान्य निर्देश

1. QCA पुस्तिका प्राप्त होने पर कृपया तुरंत जांच लें कि इस QCA पुस्तिका में कोई पृष्ठ या सामग्री आदि गलत छपी हुई या फटी हुई या गायब तो नहीं है। यदि ऐसा है, तो इसे एक नई QCA पुस्तिका से बदल लें।
2. अभ्यर्थियों को सभी प्रासंगिक विवरण जैसे नाम, ईमेल, रोल नंबर, मोबाइल नंबर आदि का आवंटित स्थान पर उल्लेख करना होगा ।
3. अभ्यर्थियों से अपेक्षा की जाती है कि वह आवंटित समय-सीमा के भीतर ही सभी 20 प्रश्नों के उत्तर-लेखन का प्रयास करें।
4. प्रत्येक उत्तर, प्रवेश के समय चुनी गयी भाषा के माध्यम में ही लिखे जाने चाहिए।
5. अभ्यर्थियों को विशिष्ट प्रश्न के उत्तर संबंधित प्रश्न के नीचे ही लिखने होंगे। आवंटित स्थान के बाहर लिखे गए किसी भी उत्तर को क्रेडिट नहीं दिया जाएगा।
6. कृपया साफ-सुथरा लिखें। अपठनीय लेखन से बचें।
7. QCAB में अप्रासंगिक तथ्यों को न लिखें / न ही चिह्नित करें।

REMARKS: .....

.....

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1. नये संसद भवन में पारंपरिक भारतीय कला और वास्तुकला का एकीकरण किस प्रकार भारत के सांस्कृतिक लोकाचार के प्रमाण के रूप में कार्य करता है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

How does the integration of traditional Indian art and architecture in the New Parliament Building serve as a testament to India's cultural ethos? (Answer in 150 words) 10 marks

Recently formed New Parliament Building depicts the cultures and aspirations of old and new India - Hon'ble PM.

Integration of traditional Indian Art and Architecture	Testament to India's cultural ethos
(1) Use of peacock over the ceiling	(1) Shows India's culture of respect towards animals
(2) Presence of greenery and huge spaces around	(2) Shows ancient environmental ethics
(3) Sankol was depicted and carried by Hon'ble PM	(3) Depicts Justice (Chola culture)
(4) Imagniery of Lord Ganesha on entrance	(4) Ancient Hindu culture depicted

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(5) Depiction of Saraswati River	(5) Most revered river in Vedas
(6) Beautiful intricate and extricate carvings	(6) Inspired from Indian Temples → Nagara, Dravida
(7) Adequate spaces for sunlight	(7) Cultural significance of Sun god (eg) Konark temple
(8) Elephant and Lotus depicted at places	(8) Lotus = Related to Goddess Saraswati and Brahmma Elephant - Vahan of Ganesha
(9) Mention / depiction of tribal paintings (eg) Warli	(9) Depict India's varied tribal culture

to present parliament shows the cultural ethos of new India which every generation of it must be proud of

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2. संगम साहित्य में महिलाओं की भागीदारी के संदर्भ में चर्चा कीजिए। यह प्राचीन दक्षिण भारतीय समाज में महिलाओं की स्थिति और उनकी भूमिकाओं के बारे में क्या दर्शाता है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

Discuss the representation of women in Sangam literature. What does it reveal about the status and roles of women in ancient South Indian society?

(Answer in 150 words) 10 marks

Sangam literature developed during 1st and 2nd century AD in the Southern India



Representation of women in Sangam literature

(1) Shown as goddesses (eg) goddess of fertility.

(2) They were talked to as highly educated and revered.

(3) They were also involved in family and societal decisions

(4) At places, even Metrilineal society was depicted

(5) Customs like Satipratha, Johar were absent

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Revelation about status and roles of women in Ancient South Indian society

(1) Status given to women was equal to men
(2) They were revered along with the male gods.
(3) Their primary tasks was to reproduce and rear the child
(4) Their decisions were respected in the family.
(5) Ills like Rapes and sati were very less prevalent.
(6) Women were also part of ancient durbars and took part in political decision making.
(7) There were many Religious sangam saints also prevalent in that time

So, women had a very special place in Sangam Literature and world can learn from it.

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3. उदारवादियों द्वारा ब्रिटिश औपनिवेशिक नीतियों की आर्थिक आलोचना ने भारतीय राष्ट्रवाद और व्यापक स्वतंत्रता आंदोलन के विकास में किस प्रकार योगदान दिया? (उत्तर 150 शब्दों में दीजिए) 10 अंक

How did the Moderates' economic critique of British colonial policies contribute to the development of Indian nationalism and the broader independence movement? (Answer in 150 words) 10 marks

Moderates' like Dadabhai Naoroji, Dinshaw Wacha came out with economic critique like Economic drain theory against the British

Contribution to development of Indian Nationalism

(1) Public awareness - about the British polices of exploitation
(eg) Industrial policy

(2) Rise in unity as a Nation as common problems were faced by whole Nation.

(3) Upliftment of Peasants - bringing them to mainstream and asking for their rights

(4) Creating Pressure over British to avoid exploitative policies

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(5) Creation of awareness abroad
(a) in London
against the British Policies

Economic Critique → broader independence movement

(1) Help in preparing the masses creating resentment among them for their rights,

(2) Showed them the path of peaceful protest and petition

(3) Gave way for extremists and Gandhian struggles later

(4) Help in policy demands structuring of later leaders

(5) Created new line of leaders ready to take control.

Therefore, Economic critique played a role of early push which started the Domino effect in Indian freedom struggle

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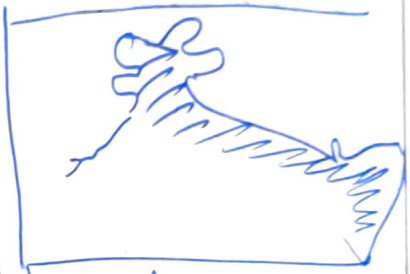
4. हिमालय की भूगर्भिक संरचना किस प्रकार इस क्षेत्र को भूस्खलन के प्रति विशेष रूप से संवेदनशील बनाती है? इसमें शामिल प्राकृतिक व मानव-प्रेरित कारकों पर चर्चा कीजिए। (उत्तर 150 शब्दों में दीजिए) 10 अंक

How does the geological structure of the Himalayas make the region particularly prone to landslides? Discuss the natural and human-induced factors involved.

(Answer in 150 words) 10 marks

Himalayas extend from Jammu and Kashmir to Arunachal and is prone to landslides

Geological Structure of Himalayas making it vulnerable to landslides



Himalayan extent

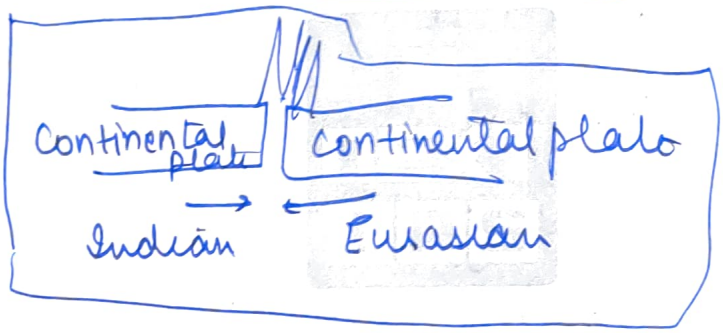


Fig Converging plate Boundary

Due to continuous convergence, Himalaya are unstable structure which are still rising leading to Earthquake and Landslides

Natural Factors Involved

(1) River Drainage system - make the soil wet and sock

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slip leading to landslides

(2) Soil erosion - because of transport by gravity and river. ↓ Landslides (glacial melting)

(3) Grazing by animals lead to more soil erosion.

Human Induced factors

(1) Unsustainable construction activities
- (eg) Joshimath Land Subsidence

(2) Overburden / Rise in human pressure above carrying capacity

(3) Unsustainable tourism activities and deforestation → soil erosion

(4) Climate Change → glacial melting ↓ overflowing of rivers

(5) Encroachment by population increasing vulnerability

'SECURE' HIMALAYAS is a right step to mitigate human induced factors - LANDSLIP for Hazard zonation can decrease vulnerability

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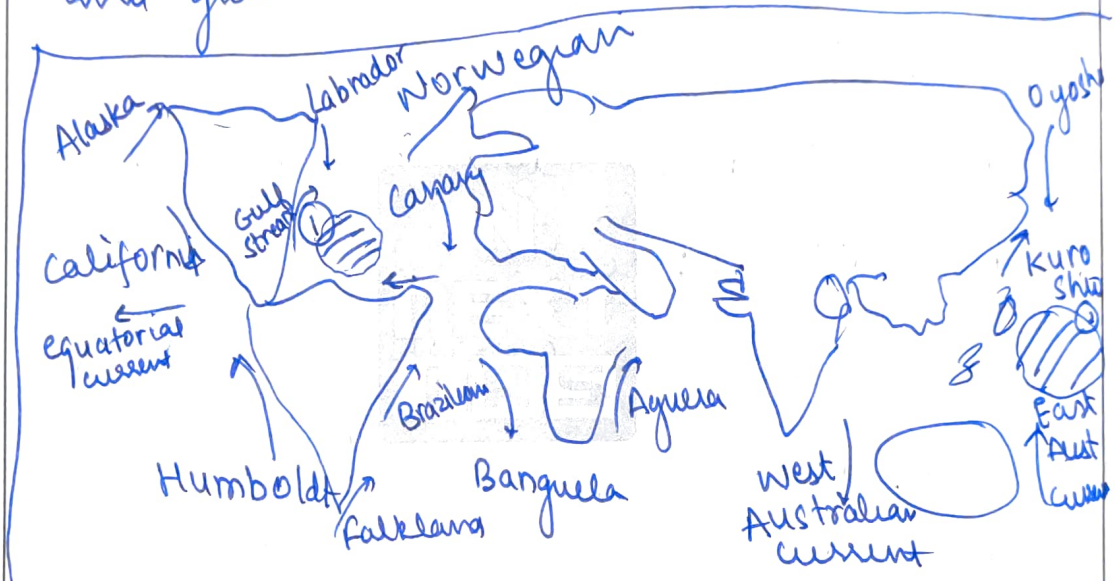
5. विश्व के महासागरों में प्रमुख महासागरीय धाराएँ एवं उनसे जुड़े चक्र (Gyres) क्या हैं? पृथ्वी की जलवायु और समुद्री पारिस्थितिकी तंत्र को आकार देने में महासागरीय धाराओं के महत्त्व पर चर्चा कीजिए।

(उत्तर 150 शब्दों में दीजिए) 10 अंक

What are the major ocean currents and their associated gyres in the world's oceans? Discuss the significance of ocean currents in shaping the Earth's climate and marine ecosystems.

(Answer in 150 words) 10 marks

Ocean current is the mass flow of water in oceans in single directions due to various reasons like density differences and global winds



① Atlantic gyre → Gulf of Mexico

② Great Pacific gyre
↳ Kuroshio, California Equatorial currents

Gyre → Circular movement of ocean current
↓
dirt gets trapped.

There are multiple gyres formed but major are too

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Significance of ocean currents → shaping Earth's Climate

1. Heat redistribution across the Globe
   - eg warming the temperate
2. Part of Atlantic Meridional Overturning circulation
3. Provide cold temperature to the glaciers.
4. Deserts formation along cold currents
   - eg Humboldt.

Significance for Marine ecosystem

1. Fish specific temperature
   - eg Avoid tropicalisation of species
2. Maintain density of water.
3. Provide Oxygen for breathing to marine fauna and CO_2 to flora.
4. Nutrient supply to fixed organisms

Therefore ocean currents play a great role in overall Earth Ecosystem

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6. भारत में मृदा के प्रकारों में भिन्नता ने कृषि पद्धतियों एवं उत्पादकता में क्षेत्रीय विषमताओं में किस तरह योगदान दिया है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

How have variations in soil types across India contributed to regional disparities in agricultural practices and productivity? (Answer in 150 words) 10 marks

India has varied types of soil present over entire part

Variation is mostly because of different nutrients present



Soils in India

Soil type variation
↓
regional disparities in agri practices

① Cultivation of specific crops
eg cotton in Black soil found in Maharashtra region

② Use of water and irrigation
eg more needed in Alluvial soil rice in Haryana

③ Use of fertilisers and pesticides required more in arid region
eg Rajasthan

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(4) Livestock cultivation - more in soil region rich in humus
(eg) Alluvial soil areas
(5) Growth of kariwas in Montane soil - Saffron cultivation.

Soil types - regional disparities in production

(1) More productivity in nutrient rich region
(eg) Sugarcane - better in Maharashtra
(2) More ions requirement (eg) Iron
(eg) Arecanut - Red and yellow soils
(3) Salinized soil - decrease soil
(eg) seen in parts of Haryana and Punjab.
(4) Growth of Jute requires wet soil → West Bengal.

Therefore, soil plays a huge role

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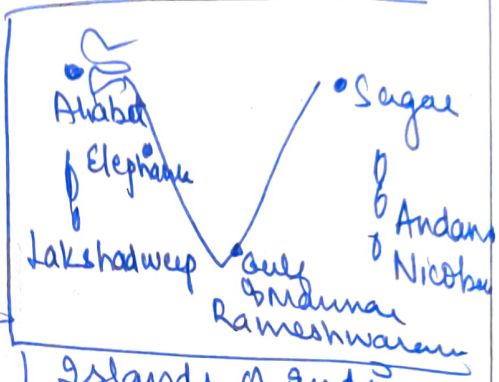
7. द्वीप पर्यटन भारत के अंडमान और निकोबार द्वीप समूह व लक्षद्वीप जैसे द्वीपों की अर्थव्यवस्था को किस प्रकार प्रभावित करता है? इस पर्यटन को संधारणीय बनाने के लिए कौन सी चुनौतियाँ और अवसर विद्यमान हैं?

(उत्तर 150 शब्दों में दीजिए) 10 अंक

How does island tourism affect the economy of India's islands like the Andaman and Nicobar Islands and Lakshadweep? What challenges and opportunities exist to make this tourism sustainable?

(Answer in 150 words) 10 marks

Andaman, Nicobar and Lakshadweep are Indian Islands present in Bay of Bengal and Indian Ocean Respectively. There are >600 such islands along the coast



Islands of India

Island tourism affecting Economy

Positives

(1) Provide livelihood opportunities in tourism
   (eg) Scuba diving
(2) Promote infrastructure development
(3) Promote ancillary economy
   (eg) local dishes and clothes sale.
(4) Economy transforms from agriculture to tourism (service industry)
   ↓
   hospitality sector develops

Negatives

(1) Over dependence on tourism
(2) Damage to other livelihoods

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③ High fluctuation in tourism leading to unsustainable flow of money

Challenges in Sustainable tourism

① tourist awareness - lacking
② lack of proper guidelines and punishments
③ poor ancillary facilities (eg) toilets and dustbins
④ local guides are not well skilled to control the tourist
⑤ local tribal culture affected

Opportunities

① Huge contribution can be there for Indian tourism
(eg) shift from Maldives
② Linking with other activities
(eg) fishing and ecotourism
③ Strict Guidelines like that of Switzerland can be implemented

E-Buses in Andaman and Nicobar is a right step.

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8. जनसंख्या नियंत्रण से लेकर परिवार कल्याण और महिला सशक्तिकरण तक की नीति में बदलाव ने भारत में जनसंख्या वृद्धि को किस प्रकार प्रभावित किया है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

How has the shift in the policy from population control to family welfare and women's empowerment impacted population growth in India? (Answer in 150 words) 10 marks

India, earlier focused on schemes like 'Teen hi Bhale', 'hum do humare do' 'forced sterilisation' but with awareness about demographic dividend and benefits it has shifted to family welfare and women empowerment

Policies now
↳ RMNCHA, National Health Mission, IMNCI - look at maternal reproductive health

Policy shift - impacting population growth

(1) Decline in fertility rates
(eg) Total fertility rate below 2.1 (2.0). (NFHS 5).

(2) Rise in education of women
(Gross enrollment Ratio >100%)
= women Cgub

(3) More Institutional deliveries

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decreasing maternal and infant mortality.

(eg) IMR = 28, MMR = 97

(4) Increasing life expectancy to 70 yrs now with women leading

(5) Rise in Sex Ratio (1021 ; 1000 males) (NFHS-5 Survey)
Women)

Negatives

(1) Feminisation of old age

(eg) 70% of old age > 70 yrs = women (NFHS report)

(2) Patchy implementation of welfare

(eg) Sachar committee report poor indicators among lower caste and Muslim

There is need of inclusive growth and implementation to build Social Capital - ARC II report

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9. भारतीय धर्मनिरपेक्षता के मूल सिद्धांत क्या हैं तथा भारतीय समाज के संदर्भ में उन्हें किन चुनौतियों का सामना करना पड़ा है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

What are the core principles of Indian secularism, and how have they been challenged in the context of Indian society? (Answer in 150 words) 10 marks

India follows positive model of secularism when it involves equally in all religions without any discrimination

Core Principles

Art 25 – Right to practice, profess, propagate any religion

Art 14, 15, 16 – equality of all religions

Art 26 – Rights of Religious denomination to control their activities

Art 27 – religious education protected

Art 28 → taxes on religious activities can't be imposed unequally

Art 29, 30 – Autonomy of religious institutions

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Challenge to Indian Society

(1) Breaking the religious barriers and fanaticism

(1) Inter principle conflicts

(eg) Religion right vs Morality
Sabarimala case.

(3) Undue and Unequal interference by executive allegedly

(eg) Promotion of Majoritarian rule

(4) Attempts of Homogenisation

(eg) UCC without all religion consent.

(5) Poor social indicators of some religions

(eg) Sachar committee report
for. Muslims have poor socio economic Indicators

'Welfare with Inclusion is the aim of Viksit Bharat' - Hon'ble PM

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10. भारत में वर्तमान प्राथमिक शिक्षा प्रणाली किस सीमा तक सामाजिक असमानताओं को संबोधित या सुदृढ़ करती है तथा अधिक समावेशी शैक्षिक वातावरण बनाने के लिए किन रणनीतियों की आवश्यकता है? (उत्तर 150 शब्दों में दीजिए) 10 अंक

To what extent does the current primary education system in India address or reinforce social inequalities, and what strategies are needed to create a more inclusive educational environment? (Answer in 150 words) 10 marks

Current 1° education paradigm is mostly based on school and family learning system.

Current 1° education → addressing social inequalities

(1) Education - helps in better social mobility.

(2) Intermixing of students from different backgrounds
↓
better contacts, less discrimination

(3) Equality depicted via the books and ancient knowledge.

(4) Co-ed schools helps in decreasing gender divide.

1° education → reinforcing social inequalities

(1) Biasness among teaches

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travels to the student
(eg) caste bias incidents
TG incident in Asean

(2) Books also sometime perpetuate biases (eg) Black people all shown as poor & ill.

(3) Value inculcation poor, more focus on exams and not learning.

Strategies for more Inclusive education environment

(1) Better Teacher Training
(2) Scrutinising the books and making them inclusive
(3) Ancient practices like gurukul study can be practiced
(4) New Education policy can be promoted which promotes inclusion

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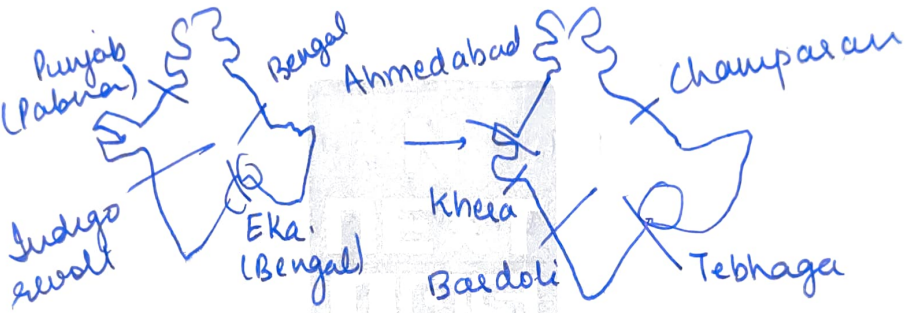
11. भारत में गांधीवाद-पूर्व चरण के किसान आंदोलनों की प्रकृति की तुलना गांधीवादी चरण के किसान आंदोलनों से कीजिए। स्वतंत्रता संग्राम के दौरान महात्मा गांधी के नेतृत्व ने भारत में किसान आंदोलनों की प्रकृति और दिशा को किस प्रकार प्रभावित किया?

(उत्तर 250 शब्दों में दीजिए) 15 अंक

Compare and contrast the nature of peasant movements in India during the pre-Gandhian phase with those in the Gandhian phase. How did Mahatma Gandhi's leadership influence the nature and course of peasant movements in India during the freedom struggle?

(Answer in 250 words) 15 marks

Peasants were the poor workers over the land in British India who, mainly due to British oppressions arose into various movements



Pregandhian

~~Post~~ Gandhian phase

Similarities of Pregandhian and Gandhian Phase

(1) Both were led by the peasants

(2) Main culprit were the British policies

(3) Main problem was vicious cycle of poverty and land commodification

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Differences

PRE GANDHIAN	GANDHIAN
(1) Protests against immediate superiors (eg) Zamindars	(1) Protests directly against the Britishers (eg) Champaran
(2) Generally Primitive looking, less awareness (eg) Pabna riots	(2) Modern looking with advanced ideas (eg) Kheda satyagrah
(3) Turned violent at times (eg) Bacca riots	(3) Most peaceful and based on Satyagraha (eg) Bardoli.
(4) Lack of constant leadership. (eg) Eka movement Madari Pasi - short lived leadership	(4) Leadership given by Gandhi and congress leaders. (eg) Tebhaga movement
(5) Legal measures were followed mostly (eg) Eka movement	(5) Extra constitutional measures followed. (eg) Champaran Khera - No tax campaign
(6) less successful as only for a short term	(6) Britishers has to accept the demands

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Mahatma Gandhi's leadership influence on nature and course of peasant movement

(1) SATYAGRAHA and Nonviolence – entered the mainstream
   (eg) Champaran Satyagraha

(2) Gave trained 2nd line leaders
   (eg) Bardoli Satyagraha – Vallabh Bhai Patel

(3) Showed true face of Britishers
   peasants became more aware

(4) Ground for mass movements
   showed the power of unity

(5) Based on TRUTH and agitation
   therefore longlasting and not easily broken.

Movements like Non-Cooperation and Civil Disobedience also motivated peasants to ask for their rights from Britishers

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2. मंदिर वास्तुकला की होयसल और नागर शैलियों की तुलना कीजिए और उनके बीच अंतर बताइए। ये अंतर अपने समय के सांस्कृतिक, धार्मिक और क्षेत्रीय प्रभावों को किस प्रकार प्रतिबिंबित करते हैं?(उत्तर 250 शब्दों में दीजिए) 15 अंक

Compare and contrast the Hoysala and Nagara styles of temple architecture. How do these differences reflect the cultural, religious, and regional influences of their time?

(Answer in 250 words) 15 marks

Hoysala system developed in 11th to 14th centuries in South India while Nagara style developed in gupta period in 4th - 7th century AD.

Similarities between Both styles

(1) Beautiful intricate and extricate carving developed on the walls



Fig - Temples in India.

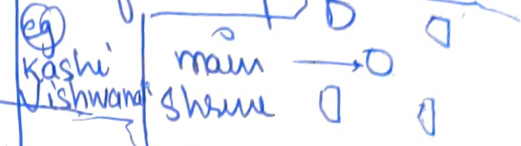
(2) Ambulatory passages were present in both.

(3) Nagara temple also influence Hoysala architecture.

(4) Use of Black marble at places in both temples

However, both of them were quite different too

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Hoysala	Nagara
① 11th - 14th century AD	① 5th - 7th century AD
② Stellate pattern temples.  eg Chama Kesava temple	② Panchyatan style of temple  eg Kashi Vishwanath
③ Large gopurams or gateways were presents	③ Gateways were generally absent
④ Large step vimanas present over the top eg Hoysaleshwara temple, Halebidu	④ Shikharas present over the top with final amalaka eg Dashavtara temple
⑤ Use of Black marble was wide eg Chama Kesava temple	⑤ Very less use of Black marble eg Khajuraho temple
⑥ South Indian culture depicted eg worship of plants	⑥ North Indian culture more eg pictures of ganga

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Differences reflecting influences of their time

① Cultural

(i) shows about the respect given to women (eg) Durga image in Nagara temple.

(ii) Shows unity and diversity in society (eg) Shudras not allowed to enter temples

② Religious

(i) Impact of Bhakti movement could seen over Hoysala temple

(eg) Krishna Murti in Channakesava temple

(ii) Impact of Islamic invasion and sufism on Nagara can be seen

(eg) Arabesque style images

③ Regional influences

(i) Importance of rivers surrounding can be seen in Hoysala

(ii) Nagara temples were richer so more beautifully decorated

Recently Hoysala temples declared UNESCO Heritage sites step in right way

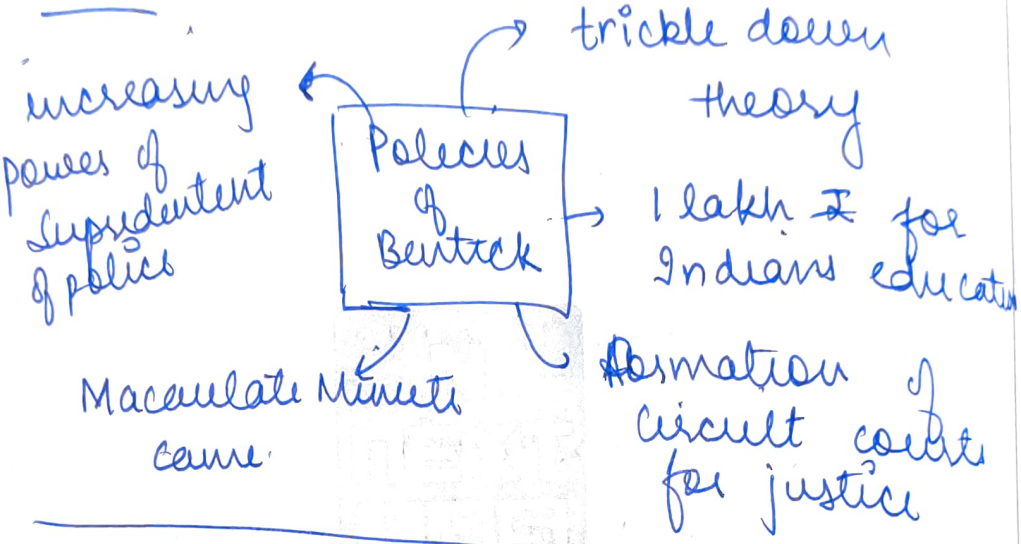
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13. भारत में लॉर्ड विलियम बेंटिक की नीतियों ने देश के सांस्कृतिक और बौद्धिक परिदृश्य को किस प्रकार प्रभावित किया? प्रमुख सुधारों के संदर्भ में चर्चा कीजिए। (उत्तर 250 शब्दों में दीजिए) 15 अंक

How did Lord William Bentinck's policies in India influence the country's cultural and intellectual landscape? Discuss with reference to key reforms.

(Answer in 250 words) 15 marks

William Bentick was ~~first~~ Governor General of British India from 1829-1835



Bentick's policies influencing country's culture

① Empowering the Superdentent of Police for providing justice in revenue cases

② Sati Pratha Abolition Act was implemented in the Bengal region

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(3) Reformist movements motivated with help of leaders like Ishwarchandra Vidyasagar, Raja Ram Mohun Roy
(eg) widow remarriages

(4) Re-instating British Rule over Mysore due to misgovernance

(5) Christian Missionaries allowed to enter → destroyed India's social fabric and practices.

Bentick's Policies – on intellectual landscape

(1) Macaulay's Minute was passed which promoted anglicist approach

(2) 1 lakh were sanctioned for education of Indians
via trickle down approach
↓
failed in very short term.

(3) Opening of new universities

(eg) IITs - IIT Roorkee.

(4) Promoted women education along with the reforms

(5) Promoted education given by those who are already learned

(6) Promotion of English language, became the main language of country
↓
made people more aware as they could now read newspapers

Bentick's policies were a mixed bag but overall were backward looking and aimed at the oppression of Indians.

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14. भारतीय शहरों में नगरीय बाढ़ एक आवर्ती चुनौती बनती जा रही है, भारत में नगरीय बाढ़ में योगदान देने वाले अंतर्निहित कारकों का विश्लेषण कीजिए। इसके प्रभाव को कम करने के लिए कौन से व्यापक उपाय किए जा सकते हैं?

(उत्तर 250 शब्दों में दीजिए) 15 अंक

With urban flooding becoming a recurrent challenge in Indian cities, analyze the underlying factors contributing to urban flooding in India. What comprehensive measures can be taken to mitigate its impact?

(Answer in 250 words) 15 marks

Urban flooding is a phenomenon of accumulation of water due to heavy rains or river overflows in urban areas (eg) Recurrent Delhi floods

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Factors contributing to Urban flooding in India

(I) **Natural factors**

(i) Erratic Monsoon winds - causing uneven rains in urban areas

(ii) Rapid Western disturbances increases winter rainfalls in India

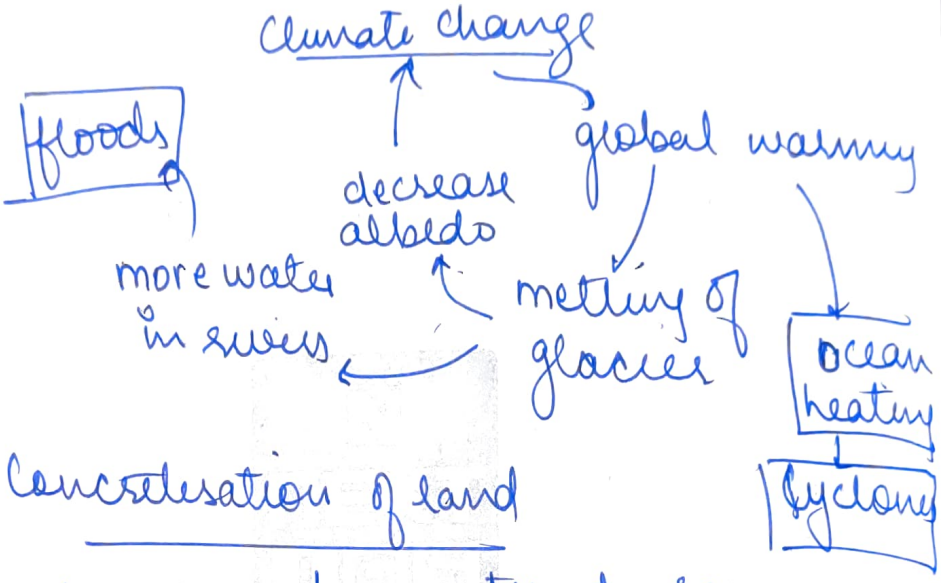
(iii) La Nina effect every 5-8 years lead to heavy Monsoon rains.

(iv) Changing River paths as perennial rivers → lead to floods.

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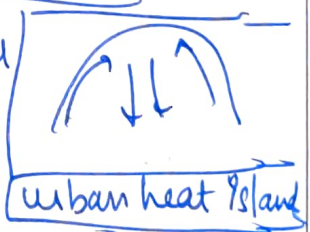
② Anthropogenic factors

(i) Climate change → IPCC Report + due to climatic changes - erratic weather incidences have increased.



(ii) Concretisation of land
↓
no area for water to seep in ground.

(iii) Formation of Urban Heat Islands
↓
leading to erratic weather



(iv) Rise in air pollution
↓
pollutants act as hygroscopic particles leading to more rain.

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comprehensive Measures can be taken

(1) Comprehensive urban Plans
   (eg) Delhi water action plan

(2) Nitin Shah Committee recommendation.
Blue green infrastructure can be made in cities

(3) Afforestation drives and Water harvesting systems can be made
   (eg) Wayanad Model.

(4) Pond development can act as reservoir for floods

(5) Technical umbrella, Doppler Radar and INCOIS can be used for better prediction and policy making

(6) Drainage Patterns must be made better.

There is need to learn from ancient civilisation (eg) Dholavira in IVC for better inputs

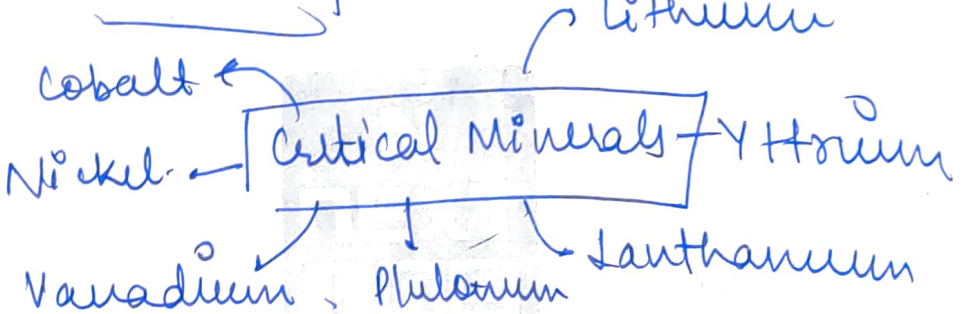
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15. जैसे-जैसे 21वीं सदी तेल के लिए संघर्ष से महत्त्वपूर्ण खनिजों के लिए प्रतिस्पर्धा में परिवर्तित हो रही है, वैश्विक आपूर्ति श्रृंखला में योगदान देने में भारत के महत्त्वपूर्ण खनिज संसाधनों की क्षमता का आकलन कीजिए। भारत के लिए इन संसाधनों के रणनीतिक निहितार्थ क्या हैं? (उत्तर 250 शब्दों में दीजिए) 15 अंक

As the 21st century shifts from battles over oil to competition for critical minerals, assess the potential of India's critical mineral resources in contributing to the global supply chain. What are the strategic implications of these resources for India?

(Answer in 250 words) 15 marks

With countries' shifting towards green energy demand for oil is decreasing and competition for critical minerals is increasing

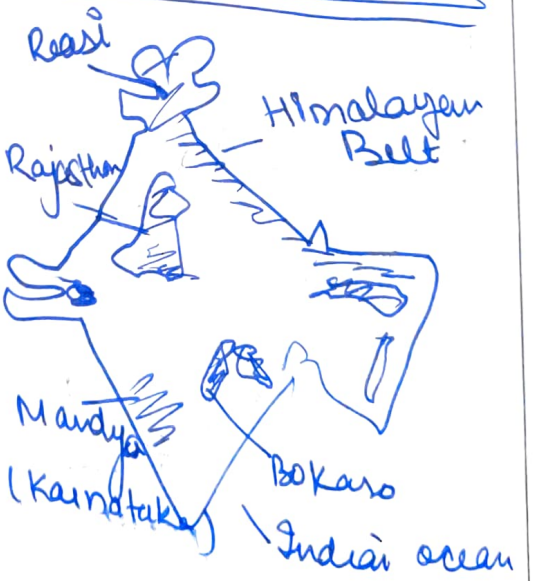


Potential of India's critical mineral resources

India's Potential is quite high

(1) Widely distributed

(eg) Jammu and Kashmir Lithium stores



Critical minerals in India

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(2) India's long maritime boundary line (7700 km)
   (eg) polymetallic nodule in Indian Ocean
(3) India's varied climate and terrain multiple critical minerals found
(4) India part of Global value chains
   (eg) Supply chain Resilience Initiative
(5) India's Bilateral deals
   (eg) ICET with USA.

However there are challenges

(1) Technology inefficient to explore the minerals
   (eg) Lithium in Ladakh still unexplored.
(2) Poor capital investment
(3) Dependence on imports
   (eg) China - 75% of Lithium imports to India
(4) Reluctance of west to share technology with India
(5) Fragility of Himalayan region and oceans can be impacted

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Strategic Implications of these resources for India

(1) Economic growth especially for the semiconductor industry

(2) Energy independence - (eg) nuclear energy and solar energy needs critical elements

(3) Strategic autonomy - as decreased dependence on China for import

(4) Green transition - and fulfilling the goals of Paris Climate deal

(5) Generate employment - in both manufacturing and mining sector both labour intensive

(6) Defence Manufacturing Boost

(7) Space Industry Boost

Therefore schemes like Khanij Bhandar Scheme and MMDR Act are steps in right way

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16. तापमान व्युत्क्रमण की परिघटना और विभिन्न क्षेत्रों के मौसमी प्रतिरूप और सूक्ष्म जलवायु पर इसके प्रभाव की व्याख्या कीजिए। साथ ही, कृषि और मानव बस्तियों पर इसके प्रभावों की भी चर्चा कीजिए।

(उत्तर 250 शब्दों में दीजिए) 15 अंक

Explain the phenomenon of temperature inversion and its impact on weather patterns and microclimates in different regions. Also, discuss its implications for agriculture and human settlements.

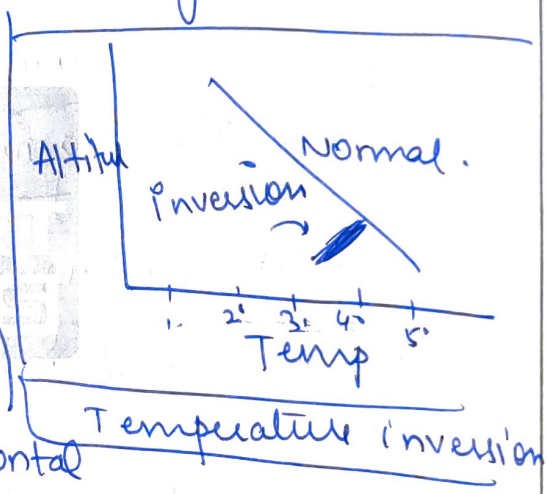
(Answer in 250 words) 15 marks

Normally temperature decreases as we go up in the atmosphere. Temperature (troposphere) inversion is phenomenon where temperature rises with rise in height

Explanation

It occurs because of various reasons

- Tropical
- Marine
- Valley
- Frontal



Mostly because cold air comes beneath or conduction of less temperature because of winter, cloudless, dry, windy night

Impact on weather Patterns and Microclimates

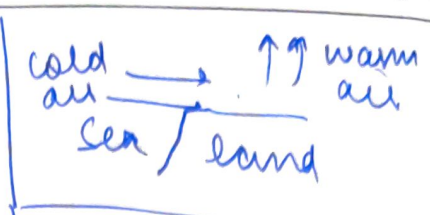
① Marine climate

soothening of temperatures due to land breeze and sea breeze

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(2) Valley temperatures

Valley temperature rises in winter because of cold air in the bottom



Temperature Inversion



Valley Inversion

(3) Polar vortex over poles

due to frontal inversion

leading to cold waves over temperate regions

(4) Chilly Winter Nights over plains due to cold air over plains

(5) Increases temperature (warmer at heights in valleys

Implications on Agriculture

(1) Shifts to slopes of mountains to protect from cold waves

(2) Pollutants trapped damages the

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crops

③ Livestock Productivity decreases due to pollution and cold waves

④ Marine, fisheries Impacted as people avoid going on coasts

warmer pollutants trapped

Implications on Human Settlements

① Shifting to the slopes of mountains and interiors of coastal regions

② Shifting to tropical regions or warm temperate regions

③ Herding pattern change of tribes in Arctic and Siberia

④ Pollution can lead to emmigration from urban areas

Therefore, knowledge of temperature inversion can come in very handy to plan both crops and settlements

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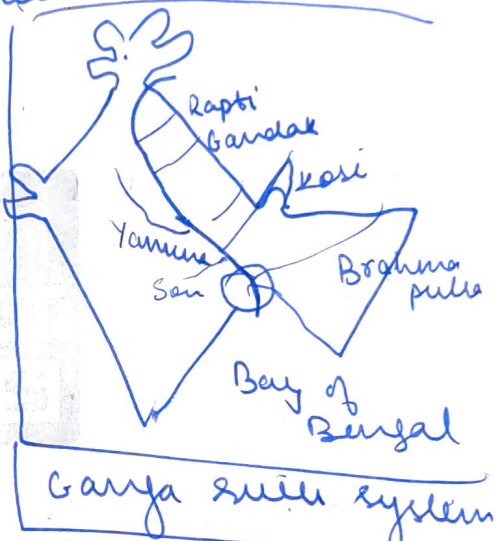
17. पर्यावरण और भारतीय संस्कृति के संदर्भ में गंगा नदी तंत्र के महत्त्व की चर्चा कीजिए। इस महत्त्वपूर्ण नदी तंत्र की सफाई और कायाकल्प (पुनरुद्धार) के समक्ष प्रमुख चुनौतियाँ क्या हैं? (उत्तर 250 शब्दों में दीजिए) 15 अंक

Discuss the significance of the Ganga river system on the environment and Indian culture. What are the key challenges in cleaning and rejuvenating this vital river system? (Answer in 250 words) 15 marks

Ganga river system traverses 10 states and have multiple tributaries and distributaries, passing through Nepal, Bhutan Bangladesh

Start → Gangotri glacier

End → Brahmputra meet Bay of Bengal



Ganga river system

Significance on Environment

(1) Rainfall Patterns → carries moisture which helps in Rain in Northern region

(2) Diverse Flora and Fauna in the region developed due to water presence. eg Gangetic Dolphin

(3) Forest development - eg Panna Tiger reserve along the river path

(4) Rejuvenates ponds and lakes in the area → stabilises

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the climate
(5) can lead to disasters due to overflowing (eg) floods.

Significance on Indian Culture

(1) Holy River - cultural Rituals associated (eg) last rites
(2) Tourism activities - along the coast of river (eg) Varanasi, Rishikesh
(3) Mythology associated of River Bhagirathi
(4) Culture of Ganga Arti and kumbh Melas along ganga coast
(5) Agriculture and Human Settlement along the coast

Key Challenges in cleaning and rejuvenating this vital river system

(1) Popular cultural beliefs might get affected
(2) People's livelihoods get affected if tourism activities stopped along the river

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(3) Large extent of river - difficult to control the activities along whole coast

(4) Huge fiscal burden will be there for cleaning and Rejuvenation

(5) Popular Behavioural change not present (eg) cloth washing along coast

(6) Sewage treatment not adequate leading to drainage of waste to the river

(7) Reluctance of authorities and interstate shift of blame.

Way Forward

(1) Social Awareness, IEC, BCC campaigns need to start

(2) CSOs, NGOs must be involved and plans must be prepared

GANGA PRAHARIS of Uttarakhand can act as role models for change

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18. भारत में वैज्ञानिक खोज ऐतिहासिक रूप से संस्कृति और धर्म के साथ जुड़ी हुई है, जिसमें प्राय: वैज्ञानिक शोधों को धार्मिक प्रथाओं के साथ जोड़ा जाता है। इस संदर्भ में, वैज्ञानिक प्रगति सदियों पुरानी रूढ़ियों व अंधविश्वासों को संबोधित करने में पारंपरिक मान्यताओं और आधुनिक सोच के बीच के अंतर को किस प्रकार कम करती है?

(उत्तर 250 शब्दों में दीजिए) 15 अंक

Scientific pursuit in India has historically intersected with culture and religion, often blending scientific inquiry with religious practices. In this context, how do scientific advancements bridge the gap between traditional beliefs and modern thinking in addressing age-old taboos and superstitions?

(Answer in 250 words) 15 marks

From the time of Indian Renessance by Raja Ram Mohan Roy where he challenged Sati Prathia on Rational ideas, there have always been intersections between scien and culture, religion.

(eg) scientific enquiry over the belief of Ram Setu

Scientific enquiries sometimes come to acceptance of superstitions and sometimes reject them also based on Rational

---

Scientific Advancements → bridging gap between traditional belief and modern thinking

---

(1) cultural Myths - (eg) Flipping of slippers will lead to bad thing were discarded.

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(2) Entry of women in temples

(eg) Sabarimala Judgement - discarded the myth behind discriminatory culture

(3) Upliftment of women

Scientific enquiries showed that women can be equally efficient in the society and economy.

(4) Caste Divides - were ruled out.

As most castes have similar DNA and similar capabilities

↓

mostly differs because of historical capabilities

(5) Awareness of modern values

(eg) Right to clean air (MC Mehta case)

So burning of crackers were banned.

(6) Mental Health Awareness

with more researches on the brains, the prevalence of

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taboos, decreased

(7) Right of Transgenders, LGBTQIA+ earlier called & taboo are now considered absolutely normal.

(8) Crossing to other country against religion was also challenged

(9) Child socialisation and kajal in eyes of child - discarded by science

However, some rituals were also declared right through scientific enquiries

(1) Burning of diyas - we also saw in COVID-19 how it can burn microbes

(2) Belief in ancient structures

(a) Dwarka nagri - underwater found. evidences from Ram setu.

(3) 'Slippers outside the home' ritual accepted, because keep microbes out

(4) Presence of Saraswati - evidence found

'Science without religion is lame Religion without science is blind'

- Einstein

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19. अनौपचारिक क्षेत्रक में सामाजिक असमानताओं की चुनौतियों पर प्रकाश डालिए। चर्चा कीजिए कि गिग अर्थव्यवस्था किस प्रकार इन मुद्दों का समाधान कर अधिकतम सामाजिक सशक्तिकरण में योगदान कर सकती है।

(उत्तर 250 शब्दों में दीजिए) 15 अंक

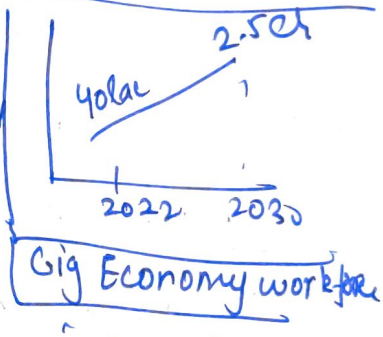
Highlighting the challenges of social inequalities in the informal sector, discuss how the gig economy can resolve these issues and contribute to greater social empowerment.

(Answer in 250 words) 15 marks

India has 80% of its workers working in informal sector (Economic Survey)

Gig Economy - a employments provided for temporary course over platforms like Zomato has gained prominence

(eg) E-S data - Gig economic participation expected to increase to 2.5Cr.



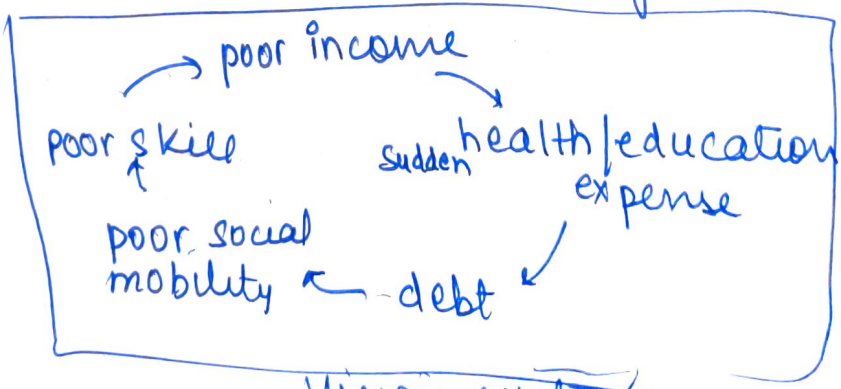
Challenge of social inequality in informal sector

① No fixed jobs and timely salaries especially to WOMEN

② Poor social assistance

↓

lead to vicious cycles of poverty



Vicious cycle

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Gig Economy resolving the Issues

(1) Job security - atleast for some time with coverage under labour laws
↓
Code for Social Security

(2) Collective demands by gig workers can be put
eg Zomato workers strike

(3) High participation of women
eg 47% of Gig workforce = women (ES) 2023-24

(4) Coverage under Health Insurances
eg Ayushman Bharat Schemes

(5) Caste Discrimination low above the caste lines as mostly in urban areas.

(6) Virtuous cycle of Economic growth can be generated.

Gig Economy contributing to greater social Empowerment

(1) Decreasing social Inequalities
eg Secular jobs

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② Providing jobs to agricultural labourers - decrease disguised unemployment

③ Multiple jobs can be taken decreasing economic burden

Other problems in informal sector

③ Poor skilling opportunities

④ 'Hire and fire' cultures without any reason

⑤ Divisions on basis of caste and gender lines

Challenges with Gig Sector

① 'Hire and fire' culture persist

② Poor social security and Meager wages

RAISE platforms for security of Gig workers is a step in right way.

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20. भारतीय समाज में धार्मिक प्रभावकों और आध्यात्मिक नेताओं के नेतृत्व में नए-युगीन के अध्यात्मवाद के पुनरुत्थान के क्या कारण हैं? भारतीय समाज पर इस परिघटना के प्रभावों का मूल्यांकन कीजिए। (उत्तर 250 शब्दों में दीजिए) 15 अंक

What are the reasons behind the resurgence of new-age spiritualism led by religious influencers and spiritual leaders in Indian society? Evaluate the impact of this phenomenon on Indian society. (Answer in 250 words) 15 marks

India is a spiritual country, land of Ramayana, Bhagwad Geeta. It is now seeing multiple emerging spiritual and religious influencers in Indian society

Reasons behind Resurgence of New Age Spiritualism

(1) Digital world - With >750 million active internet users (IAMAI) - access has increased

(2) Emerging issues like Mental Health people attracted towards spiritualism

(3) Based on Rationality mixed with spirituality - attracts the middle class

eg Sadguru - Soil conservation campaign.

(4) Awareness about Religious texts - increasing

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(5) Rising Competition and Capitalism
People want faster results

(6) Influencing and Speaking skills of these leaders also attract the people.

Impact of this phenomenon on Indian Society

(POSITIVE)

(1) Awareness about India's past has increased especially among Gen Z

(2) Rise of Nationalism and patriotism among youth listening to glorious culture of India

(3) Socialisation pattern changing
(eg) Gurukul system emerging again

(4) Family values strengthening
(eg) Parents as the most respected persons

(5) Tackling Mental Health issues

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and drug abuse
(eg) provide peace (from Meditation)

Negative Impacts

(1) Cult following - treating the influencers as god
(2) Misuse of influence by spiritual leaders (eg) Ram Rahim case.
(3) Perpetuate Myths and Taboos
(eg) Conversion therapies for Transgenders
(4) Disasters leading to deaths
(eg) RECENT HATHRAS STAMPEDE
(5) Rise of Radicalism with decreasing tolerance for opposite values
(6) Laws value decreasing because of rise in traditions

There is a need of appropriate balance spiritualism should be based on modern ways and basis should be rationalism.