Topics

- China and pakistan climate
- Functional diversity
- Dengue
- Coconut palm
- Rule 49 -0
- Essay topic

By saurabh pandey sir

Target Mains 2024/25 - essay topic

Q"From passion comes confusion of mind, then loss of remembrance, the forgetting of duty. From this loss comes the ruin of reason, and the ruin of reason leads man to destruction."

Q"जुनून से मन का भ्रम होता है, फिर याददाश्त खो जाती है, कर्तव्य भूल जाता है। इस हानि से तर्क का विनाश होता है, और तर्क का विनाश मनुष्य को विनाश की ओर ले जाता है।"

send your answer - Saurabh pandey upsc telegram channel

UPSC

Q महासागर जलवायु को नियंत्रित करता है और जलवायु महान् समुद्री पारिस्थितिकी को आकार देता है। चर्चा करें। (10 अंक)

सुचारू रूप से जलवायु को चलने के लिए महासागर की बहुत बड़ी भूमिका होती है। जिसके कारण नियमित तौर पर कृषि एवं व्यक्ति ~~जीवन यापन करता है~~ जीवन यापन करता है।

यह सत्य है कि महासागर जलवायु को नियंत्रित करता है। वैश्विक तापन से होने वाले जलवायु में परिवर्तन के कारण हिम तेजी गति से पीघल रहा है। इससे बड़े हिमनद पर्वतों से आने वाली नदियां कुछ समय बाद सुख जायेगी या अपना जल नदी तक नहीं पहुंचा पायेगी।

इस कारण समुद्र का जल और खारा होता चला जायेगा। सूर्य से आने वाली किरण को प्रतिबिंबित कर देगा। इसलिए चक्रवात बनने वाली कारण को खो देगा और कम से कम चक्रवात का निर्माण होगा जिससे वर्षा की कमी को देखा जा सकता है। इस कारण से जलवायु का एक लय में चलना खत्म हो जायेगा।

साथ ही समुद्र के अंदर के जिव भी मरने लगेंगे, और समुद्री जल पारितंत्र भी खत्म होने लगेगा। कम वर्षा होने से फसलों का उत्पादन भी मुश्किल हो जायेगा। जो लोगों के लिए कठिन परिस्थिति को जन्म दे देगा। सकता है।

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चित्र- अधिक खारा होने पर

चित्र- कम खारा होने पर

समुद्र में अधिक वर्षा का पानी पहुंचने पर जलीय वाष्पीकरण आसान और अधिक मात्रा में होता है जो स्थल एवं जल में रहने वाली सभी प्रकार और पशुओं के लिए अच्छा जिवन का कारण है। यह बहुत जरूरी है कि बढ़ते पर्यावरण का और वैश्विक तापन होने से रोका जाये। महासागर जलवायु को नियंत्रित करता है और जलवायु समुद्री पारिस्थितिकी को आकार देता है। जो स्थल पर रहने वाले जिव-जंतु के साथ-साथ जल के अंदर रहने वाले इकोलॉजी, में होने में संतुलन बना कर रखता है।

TOPERS FIRST FULL LENGTH TEST -2 (PRELIMS VIJAY SERIES)

1- Ankur
2- Puja yadav
3- Nikki Aggarwal

Prelims Vijay series TEST-2 (full length)

Student leaderboard

Student name	Marks	Grade	Rank
Ankur	137.93/200	B	1
Puja Yadav	118.6/200	B	2
Nikki Aggarwal	101.92/200	B	3
MAYANK AWASTHI	101.26/200	B	4th
Renu	93.23/200	C	5th
Asmita	89.94/200	C	6th

Extreme floods in Pakistan lead to heatwaves in China

Extreme heatwaves in China follow floods in Pakistan because of an upper tropospheric pathway tied to the Asian summer monsoon system, according to an analysis of more than 40 years of atmospheric data. This pathway emerges due to the system's internal variability and occurs independent of sea surface temperature forcing patterns. In the summer of 2022, Pakistan experienced catastrophic flooding. Right afterward, China was struck by long-running heatwaves followed by severe drought.

China and pakistan climate

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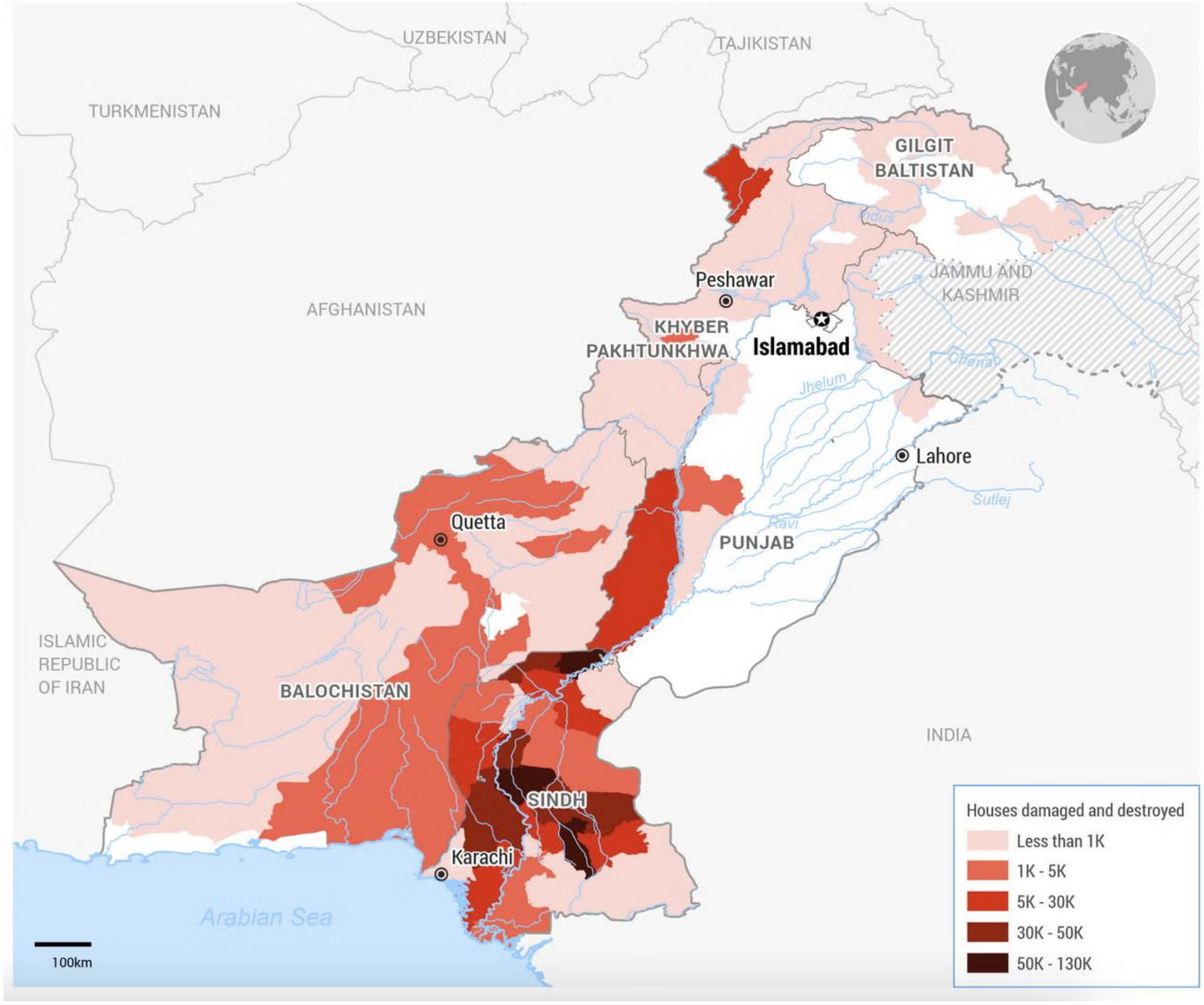
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REPUBLIC
OF IRAN
BALOCHISTAN
INDIA
SINDH
Karachi
Arabian Sea
100km
Houses damaged and destroyed
Less than 1K
1K - 5K
5K - 30K
30K - 50K
50K - 130K

Diversity can help Canadian drylands endure drought

A new study demonstrates how a diversity of functional plant traits can bolster dryland forest ecosystem productivity in Canada as the climate warms. Based on 57 years of data, the research suggests that dryland biomes with more of this functional plant diversity are far more productive than their monoculture counterparts even during drought intensification. Functional diversity can thus boost ecosystem resiliency over the long term and are unique as Canadian drylands offer a well-preserved forest ecosystem for research.

Functional diversity

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What is Functional diversity ??

- Functional diversity refers to those components of biodiversity that influence how an ecosystem operates or functions.
- The biological diversity, or biodiversity, of a habitat is much broader and includes all the species living in a site, all of the genotypic and phenotypic variation within each species, and all the spatial and temporal variability in the communities and ecosystems that these species form.

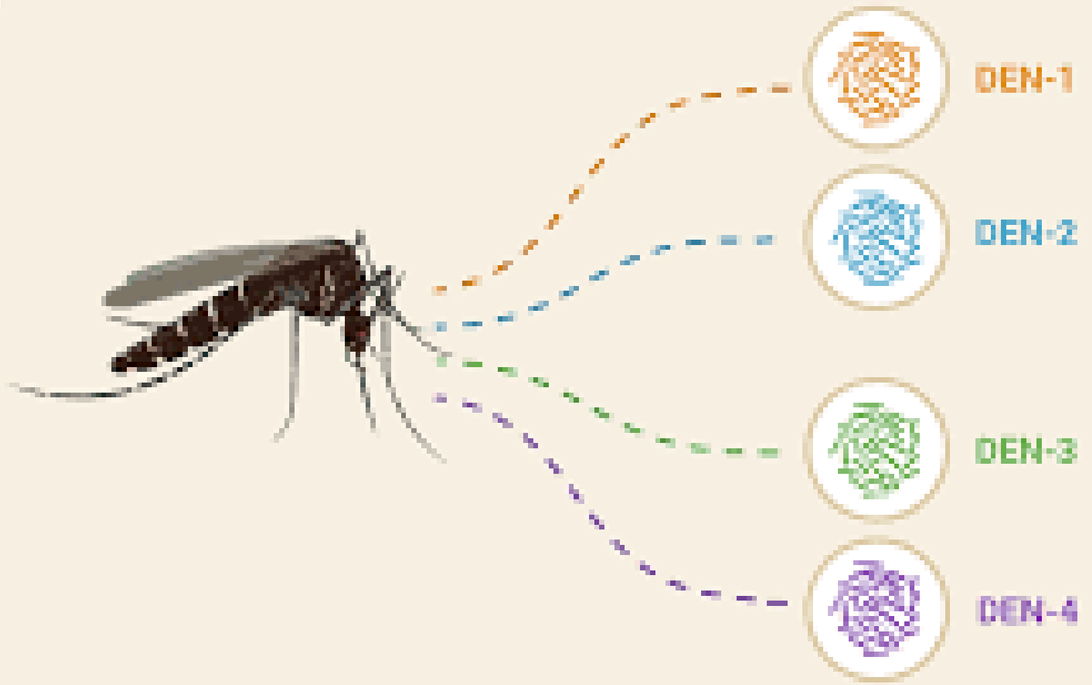
- Functional diversity, which is a subset of this, is measured by the values and range in the values, for the species present in an ecosystem, of those organismal traits that influence one or more aspects of the functioning of an ecosystem.
- Functional diversity is of ecological importance because it, by definition, is the component of diversity that influences ecosystem dynamics, stability, productivity, nutrient balance, and other aspects of ecosystem functioning

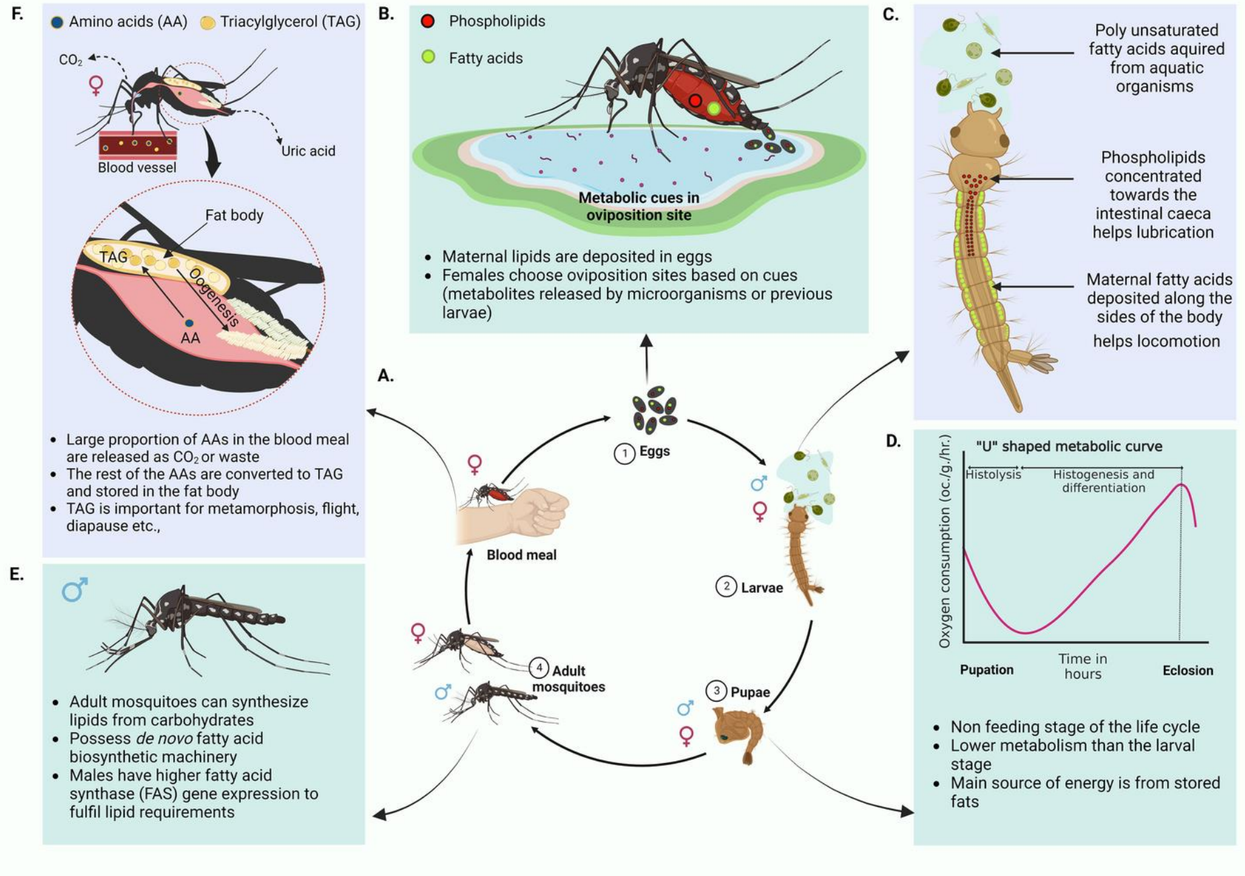
Dengue surveillance reveals how viral types shape risk

A study that combines genetic analysis of the dengue virus with surveillance data teases apart how different subtypes of the virus can shape the risk of having severe repeated infections. The antigenic data on the viruses was combined with a catalog of details on hospitalised cases. When infected for a second time with serotypes that were very similar or very different the disease risk is lower than those when infected with moderately different serotypes.

CAN A PERSON BE INFECTED WITH DENGUE TWICE?

Yes. Infection with one serotype of the dengue virus will only provide immunity to that particular serotype.





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The many benefits of coconut

SPEAKING OF SCIENCE

D. Balasubramanian

A paper published in 2014 by Uma Ahuja *et al.*, in the journal *Asian Agri-History*, points out that the coconut palm is considered as a native of Malesia, a bio-geographical region that includes Southeast Asia (notably India), Indonesia, Australia, New Guinea, and several Pacific Island groups. This paper deals with the history through archaeological, epigraphic, and historical records and its uses and related folklore. Coconut has been recorded in archaeological excavations and epigraphic inscriptions in India – in scriptures of religious, agricultural, and Ayurvedic importance. Its multiplicity of uses has earned it epithets like the Tree of life, Tree of abundance, and Kalpavriksha (a tree that provides all necessities of life). The authors point out that in addition to its food value, it has health, medicinal, and cosmetic benefits.

In India, coconut is mainly grown in southern States – Kerala, Karnataka, Tamil Nadu, Telangana, and Andhra Pradesh. These states produce over 90% of coconuts. This is because these trees need a warm and sandy soil which is well- drained and nutrient-rich, a warm and humid climate, and abundant rainfall. North India, on the other hand, has a predominantly temperate climate, with cold winters and hot summers. The region also experiences distinct seasons with uneven rainfall, which are not conducive to the growth of coconut trees. However, some Northeastern States, with their appropriate temperatures and rainfall, also produce coconuts, but they have a clayey soil, not ideal for the trees to grow.

Kalpavriksha: In addition to its food value, coconut has health, medicinal, and cosmetic benefits. GETTY IMAGES

Coconut occupies a special and a higher place among the many articles used in religious offerings to god. It is used in religious and social ceremonies even in areas where it is not grown. Not an inch of the tree goes waste, and all parts are put to some use. Through its innumerable working utilities and direct uses as food, feed, and drink, coconut has penetrated the cultural, social, religious, and lingual matrix of people of various communities. Coconut plays an important role in our daily life in South India. Every temple is decorated with coconut palm trees, its whole nuts are offered to the deity and the devotees are offered a bit of the nut and some coconut water given as 'prasadam'. No drink matches the coconut water in freshness and health; it is just nectar! And no sweet can match the 'kozhukkatai' (or 'modak'), which is made from the 'meat' of the broken coconut! (It is the favourite of Lord Ganesha). Also, as a child grown in Tamil Nadu, I was forced by my grandmother to take an oil-bath every month, using castor oil, or coconut oil (much against my wishes)!

There are many benefits to coconut. The website Healthline.com lists the many nutrients contained in the 'meat': high in fat, rich in fibre, and in vitamins A, D, E and K, which control overeating and help regular bowel movement. When we turn from the 'meat' to the oil, some groups have suggested that coconut oil appears to benefit the flow of arteries and veins in the body, thus more beneficial for our cardiovascular health. Some groups even suggest that it may delay Alzheimer's disease, though this may need more evidence. I, as a senior citizen, use coconut oil, hoping to avert these conditions. I often use it instead of butter in my daily breakfast of toast. This would have pleased my grandmother!

coconut palm

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When is a candidate elected unopposed?

What are the rules under the Representation of the People Act? What happened in the Surat Lok Sabha constituency? What has the Supreme Court asked the Election Commission about a petitioner's plea seeking fresh elections in constituencies where NOTA votes are in a majority?

T. Ramakrishnan

The story so far:

On April 22, the ruling Bharatiya Janata Party opened its tally in the Lok Sabha when its nominee for the Surat constituency in the western State of Gujarat, Mukesh Dalal, was elected unopposed. This followed the rejection of the nomination papers of the Congress candidates [main and substitute nominees] the previous day and the withdrawal of other nominees. This means Gujarat's second largest city will not go to the polls on May 7.

How is a candidate declared elected before polling?

Section 53 (3) of the Representation of the People Act, 1951 deals with the procedure in uncontested elections. According to this proviso, if the number of such candidates is less than the number of seats to be filled, the returning officer (RO) shall forthwith declare all such candidates to be elected. In this regard, the RO's actions are governed by Section 33 of the Act which pertains to the presentation of nomination papers and requirements for a valid nomination.

Sub-section 4 says: "On the presentation of a nomination paper, the returning officer shall satisfy himself that the names and electoral roll numbers of the candidate and his proposer as entered in the nomination paper are the same as those entered in the electoral rolls..." In the given instance, three proposers of the Congress' candidate for Surat, Nilesh Kumbhani, claimed in an affidavit to the district election officer (DEO), Sourabh Pardhi, that they had not signed his nomination form. They did not also turn up before the DEO on April 21 to support the candidate's nomination form.

Section 53 (3) of the Representation of the People Act, 1951 deals with the procedure in uncontested elections

Easy entry: BJP leader Mukesh Dalal receives the 'certificate of election' after he was elected unopposed from Surat on April 22. PTI

Besides, the Handbook for Returning Officers (Edition 2) issued by the Election Commission (EC) in August 2023, in the chapter titled uncontested election, states that "if in any constituency, there is only one contesting candidate, that candidate should be declared to have been duly elected immediately after the last hour for withdrawal of candidature. In that event, a poll is not necessary." It also says that "all those candidates, who are returned as uncontested and [who] have criminal antecedents, must publicise the details in the prescribed format as per timeline."

What is the scope for negative voting in the election system?

There is ample scope in the system. While the NOTA (none of the above) option has been in force since 2013, the Conduct of Election Rules, 1961, allows electors to decide not to vote through Rule 49-O. A remark to the effect that the elector has decided not to record his or her vote would have to be made in the "remarks column" against the entry relating to the elector in the Register of Voters by the presiding officer, after which the signature or thumb impression of the elector would have to be obtained against such a remark.

The option of NOTA, introduced through the Supreme Court's intervention, has been available on electronic voting machines (EVMs) since November 2013. This became a reality in the wake of a verdict given by a Bench of the Supreme Court comprising Chief Justice P. Sathasivam and Justices Ranjana Desai and Ranjan Gogoi in September 2013, while allowing a petition filed by the People's Union for Civil Liberties. The then CJI, who wrote the judgment, said: "Giving right to a voter not to vote for any candidate while protecting his right of secrecy is extremely important in a democracy. Such an option gives the voter the right to express his disapproval of the kind of candidates being put up by the parties." He expressed the hope that "gradually, there will be a systemic change and the parties will be forced to accept the will of the people and field candidates who are known for their integrity."

There is a difference between an elector exercising Rule 49-O and one using the NOTA option. In the case of the former, the likelihood of such an elector compromising his or her secrecy is high, as there is a procedure to be followed manually at a polling booth. However, in the case of the latter, there is no such issue.

But, according to the Handbook for ROs, the NOTA votes are not to be taken into account for calculating the total valid votes polled for the return of the security deposit. The EC's stand has been that the person getting the largest number of votes in any constituency will still be declared the winner, regardless of the number of NOTA votes.

But, with respect to local bodies' polls, the situation is different, at least in Maharashtra. Through an order in November 2018, the Maharashtra State Election Commission said that NOTA would be regarded as a fictional electoral candidate for the polls to urban local bodies, and wherever NOTA gets the highest votes, the Commission would go for re-poll.

What are the developments post NOTA?

There have been instances wherein votes obtained by political parties were lower than the NOTA votes. But, a section of activists and constitutional experts has been critical, calling NOTA a "toothless tiger" with no implications on the results, despite the fact that NOTA was reported to have netted over 1.29 crore votes in the State Assembly elections and the Lok Sabha elections combined in the last five years.

On April 26, the Supreme Court, which had in the past refused to direct the EC to hold fresh polls if the majority of the electorate exercised NOTA, asked the poll panel to respond to a plea seeking fresh elections to constituencies where NOTA votes were in majority. The prayer of the petitioner-author Shiv Khera was that the court should direct the EC to frame rules, stating that candidates who polled fewer votes than NOTA should stand debarred from contesting elections for five years.

Rule 49-O.

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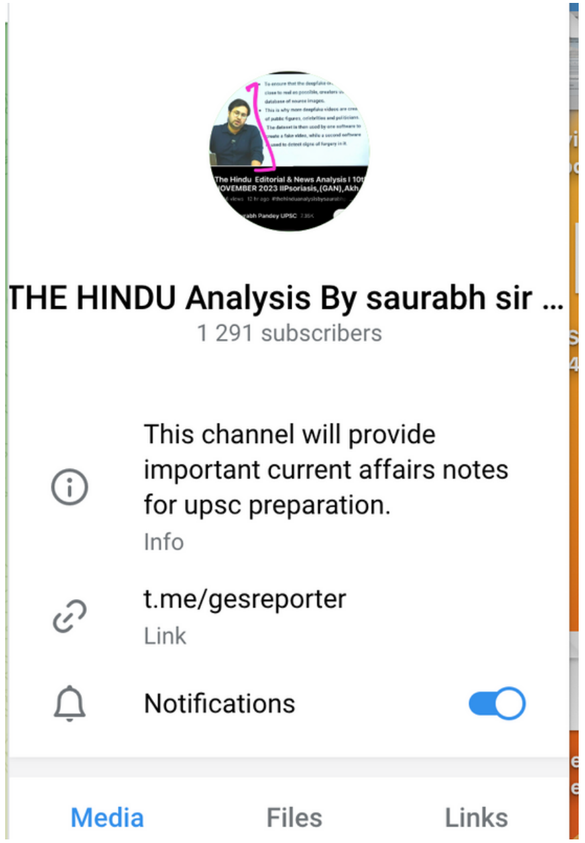

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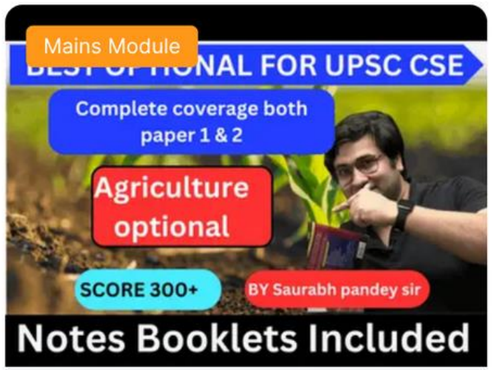

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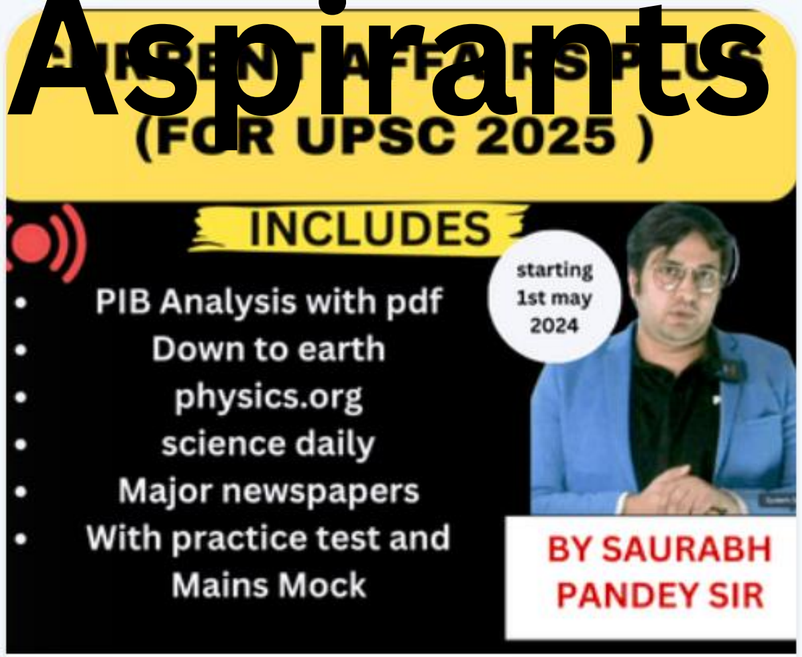

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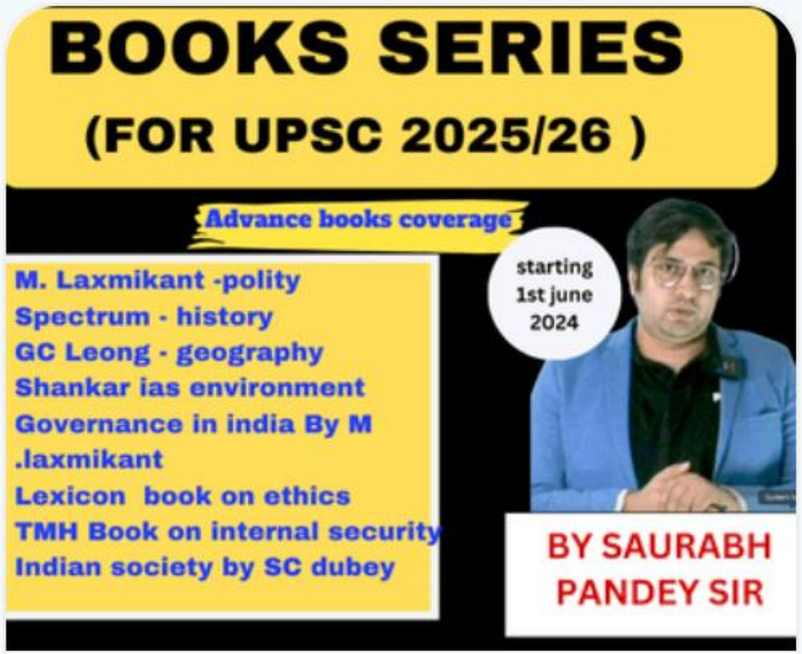

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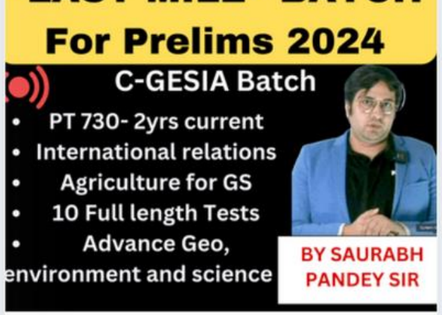

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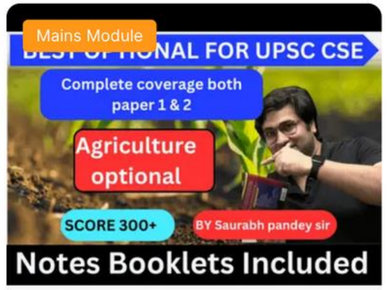

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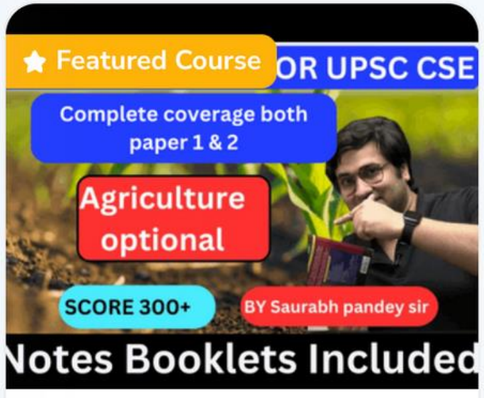

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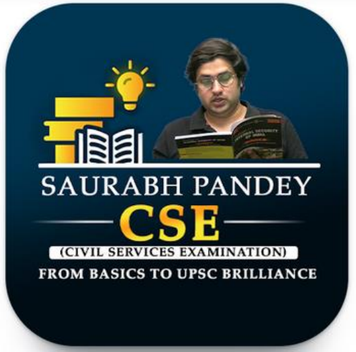

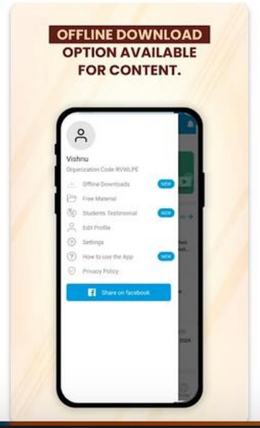

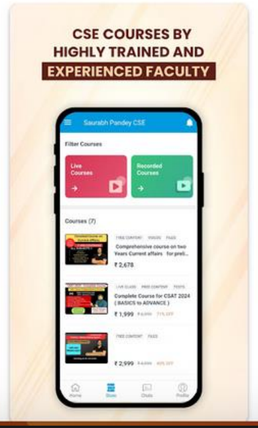

App support

Target Mains 2024/25 - essay topic

Q"From passion comes confusion of mind, then loss of remembrance, the forgetting of duty. From this loss comes the ruin of reason, and the ruin of reason leads man to destruction."

Q"जुनून से मन का भ्रम होता है, फिर याददाश्त खो जाती है, कर्तव्य भूल जाता है। इस हानि से तर्क का विनाश होता है, और तर्क का विनाश मनुष्य को विनाश की ओर ले जाता है।"

send your answer - Saurabh pandey upsc telegram channel