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Topics Covered



- Summary:
- What is the news?
 - Understanding the Climate Clock:
 - CSIR's Commitment Through the Clock:
 - Challenges and Opportunities:
 - However, amidst these challenges lie opportunities:
- Why is Earth Day Celebrated?
- Conclusion:
 - QuizTime:
 - Are you Ready!
- Read the Below Instructions Carefully:
 - Please Rate!
- Mains Questions:
 - Question 1:
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 - Question 2:
 - Model Answer:
 - Relevance to the UPSC Prelims and Mains syllabus under the following topics:
- Prelims:
- Mains:

Summary:

- **Earth Day Celebration:** The page discusses the celebration of Earth Day on April 22nd, emphasizing the need for action against climate change.
- **Climate Clock Unveiling:** It highlights the unveiling of India's largest Climate Clock by CSIR in New Delhi to raise awareness about climate change.
- **Clock's Significance:** The Climate Clock serves as a visual reminder of the time left to limit global warming to 1.5°C or 2°C above pre-industrial levels.
- **India's Challenges:** The article mentions India's challenges like population growth, fossil fuel dependence, and financial constraints in addressing climate change.

What is the news?

- Earth Day, celebrated annually on April 22nd, serves as a stark reminder of our planet's fragility and the urgent need for collective action on climate change. This year, the Council of Scientific & Industrial Research (CSIR), India's leading scientific and industrial research agency, took a significant step by unveiling **India's largest Climate Clock at its headquarters**

in New Delhi. This initiative signifies a renewed commitment to raising awareness about climate change and its potentially devastating consequences.

Understanding the Climate Clock:

- Climate clocks are digital displays that count down the remaining time humanity has to reduce greenhouse gas emissions and prevent catastrophic climate change. These clocks often use scientific data to calculate the time window available for limiting global warming to a specific target, typically 1.5°C or 2°C above pre-industrial levels.

By presenting a clear and concise visualization of the urgency of the climate crisis, these clocks aim to:

- **Raise awareness:** They grab public attention and spark crucial conversations about climate change.
- **Motivate action:** They encourage individuals and governments to implement solutions to reduce emissions.
- **Provide a sense of urgency:** They highlight the limited time remaining to avert the worst impacts of climate change.

CSIR's Commitment Through the Clock:

The installation of India's largest Climate Clock by CSIR underscores the organization's crucial role in tackling climate change. CSIR, with its vast network of research institutions, has the potential to:

- **Develop innovative solutions:** Research efforts can focus on clean energy technologies, sustainable agriculture practices, and carbon capture and storage solutions.
- **Provide evidence-based policy recommendations:** Scientific data generated by CSIR can inform government policies to address climate change.
- **Promote public education and outreach:** Engaging with communities and raising awareness about climate change is critical for building public support for climate action.

Challenges and Opportunities:

While the unveiling of the Climate Clock is a positive step, India faces significant challenges in addressing climate change. These include:

- **Rapidly growing population:** India's growing population places an increasing demand on resources and energy consumption.

- **Dependence on fossil fuels:** India's energy sector still relies heavily on coal, a major contributor to greenhouse gas emissions.
- **Limited financial resources:** Implementing large-scale clean energy technologies requires significant investments.

However, amidst these challenges lie opportunities:

- **Renewable energy potential:** India has vast potential for solar and wind energy generation, which can help reduce dependence on fossil fuels.
- **Technological advancement:** Technological innovations in areas like clean energy, electric mobility, and sustainable agriculture offer solutions for a low-carbon future.

Why is Earth Day Celebrated?

- Earth Day was first started on April 22, 1970. The main reason for its creation was to bring environmental issues to the forefront of public consciousness.

Here's a breakdown of the context:

- The 1960s saw a rise in environmental activism due to growing concerns about pollution, industrial waste, and the overall degradation of the

environment.

- Senator Gaylord Nelson of the United States witnessed the devastating effects of an oil spill in Santa Barbara, California, in 1969. This event is considered a major catalyst for his idea.
- Inspired by the student anti-war movement, Senator Nelson envisioned a large-scale environmental movement to galvanize public support.

So, Earth Day was born as a way to raise awareness and push for environmental action on a national scale in the US. The overwhelming success of the first Earth Day, with an estimated 20 million Americans participating, led it to become a global phenomenon.

Conclusion:

- The unveiling of India's largest Climate Clock by CSIR is a timely and necessary action. It serves as a powerful symbol of awareness and a call to action. By combining scientific research with policy initiatives and public engagement, India can play a crucial role in combating climate change and building a more sustainable future for generations to come. The clock is ticking, and India, with its vast resources and talented scientific community, has the potential to become a leader in the global fight against climate change.



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Are you Ready!

Thank you, Time Out !

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General Studies

CURRENT AFFAIRS QUIZ

Read the Below Instructions Carefully:

- Click on - Start Quiz
- Attempt all questions (You can attempt or leave)

- After Attempting Last Question.
 - Enter Name & Email
 - Click on - Check Result
 - Scroll down - Check out Solutions too.
- Thank you.

Loading ...



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Category: General Studies

The Council of Scientific and Industrial Research (CSIR) recently unveiled India's largest Climate Clock. What is the PRIMARY purpose of such Climate Clocks?

- To provide real-time data on global air pollution levels.
- To showcase India's scientific advancements in climate research.
- To raise awareness about the urgency of addressing climate change.
- To track the progress of India's renewable energy initiatives.

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Category: General Studies

What is the main advantage of India leveraging its potential for renewable energy like solar and wind power?

- Reduction in dependence on imported fossil fuels.
- Creation of new job opportunities in the energy sector.

Both (a) and (b)

Neither (a) nor (b)

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Finish

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Category: **General Studies**

Which of the following is NOT a potential contribution of CSIR to India's fight against climate change?

Developing new technologies for carbon capture and storage.

Advocating for government policies promoting energy efficiency.

Providing financial aid to companies investing in renewable energy.

Conducting research on sustainable agricultural practices.

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Finish

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Category: **General Studies**

In the context of the Climate Clock and India's fight against climate change, which of the following statements is INCORRECT?

The Climate Clock serves as a visual reminder of the limited time remaining to act on climate change.

CSIR can play a crucial role in developing clean energy technologies and promoting sustainable practices.

India's growing population presents a significant challenge in reducing its carbon footprint.

The unveiling of the Climate Clock signifies a renewed commitment to addressing climate change.

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Category: General Studies

India faces challenges in transitioning to a low-carbon future. Which of the following is the MOST significant challenge?

- Limited availability of land for setting up solar power plants.
- Lack of public awareness about the benefits of renewable energy.
- High dependence on fossil fuels like coal for energy generation.
- Shortage of skilled workforce for installing and maintaining renewable energy infrastructure.

Prev

Finish

Check Rank, Result Now and enter correct email as you will get Solutions in the email as well for future use!

Check the Result

Your score is

0%

Restart quiz

Please Rate!

Send feedback

Mains Questions:

Below Mains Question

Write in Comment Section



Question 1:

The Council of Scientific and Industrial Research (CSIR) recently unveiled India's largest Climate Clock on Earth Day. Explain the significance of Climate Clocks and how CSIR can contribute to India's fight against climate change. (250 words)

Model Answer:

Significance of Climate Clocks:

- **Raise Awareness:** Climate Clocks serve as a stark reminder of the limited time remaining to address climate change.
- **Motivate Action:** They encourage individuals and governments to implement solutions to reduce greenhouse gas emissions.

- Provide Transparency: These clocks present clear data on the urgency of the climate crisis.

CSIR's Contribution to Combating Climate Change:

- Research and Development: CSIR can spearhead research on clean energy technologies like solar and wind power, energy storage solutions, and sustainable agriculture practices.
- Policy Advocacy: Scientific data generated by CSIR can inform government policies for promoting renewable energy, energy efficiency, and carbon capture technologies.
- Public Engagement: CSIR can collaborate with educational institutions and NGOs to raise public awareness about climate change and its mitigation strategies.

Question 2:

India faces significant challenges in addressing climate change, such as a growing population and dependence on fossil fuels. Discuss these challenges and how India can leverage its potential for renewable energy to transition to a low-carbon future. (250 words)

Model Answer:

Challenges:

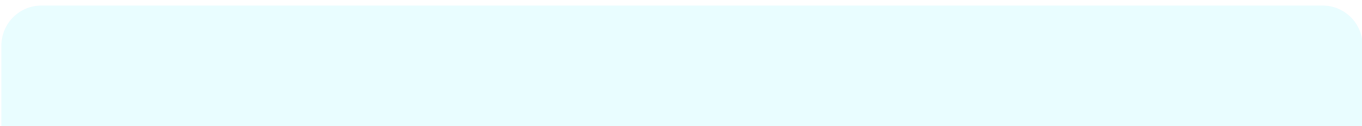
- **Rapid Population Growth:** Increases demand for energy and resources, potentially leading to higher emissions.
- **Fossil Fuel Dependence:** India's energy sector relies heavily on coal, a major contributor to greenhouse gas emissions.
- **Limited Financial Resources:** Implementing large-scale clean energy technologies requires significant investments.

Leveraging Renewable Energy Potential:

- **Abundant Solar and Wind Resources:** India has vast potential for generating clean electricity through solar and wind power plants.
- **Technological Advancements:** Falling costs of solar panels, wind turbines, and battery storage technologies make renewable energy increasingly affordable.
- **Job Creation:** The transition to a renewable energy economy can create new jobs in manufacturing, installation, and maintenance of clean energy infrastructure.

By promoting research and development in renewable energy, attracting investments in the sector, and creating an enabling policy framework, India can harness its renewable energy potential to reduce its carbon footprint and build a sustainable future.

Remember: These are just sample answers. It's important to further research and refine your responses based on your own understanding and perspective. Read entire UPSC Current Affairs.



Relevance to the **UPSC Prelims and Mains syllabus** under the following topics:



Prelims:

- **GS Paper I: General Science:** This section might indirectly touch upon Climate Change and its impact. You could mention the Climate Clock as an initiative raising awareness about this issue.

Mains:

- **Essay:** Topics related to climate change, environment, and sustainable development could provide an opportunity to discuss the significance of Climate Clocks and India's efforts to combat climate change.
- **General Studies III (Technology, Economic Development, Security and Social Development):** This section could be relevant for discussing advancements in clean energy technologies and their role in mitigating climate change. You can mention CSIR's potential contribution

through research and development.

- **Environment & Ecology:** This section might ask about climate change mitigation strategies, challenges faced by India, and the role of scientific institutions like CSIR.



*Click here to read in
Hindi.*

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Quiz Time

The profit triples with a doubling of the selling price. Determine the profit percentage.

- Option 1
- Option 2
- Option 3



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