



Daily Current Affairs Prelims Quiz 08-04-2021 - (Online Prelims Test)

1) Consider the following statements with respect to *Anamaya*

1. It is a tribal health collaborative which will converge efforts of various Government agencies and organizations to enhance the health and nutrition status of the tribal communities of India.
2. The Collaborative is a multi-stakeholder initiative of Ministry of Tribal Affairs supported by Piramal Foundation and Bill and Melinda Gates Foundation (BMGF).

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : c

- A Tribal Health Collaborative was launched by the Union Minister of Health and Family Welfare and the Union Minister of Tribal Affairs recently.

Anamaya

- The Collaborative is a multi-stakeholder initiative of Tribal Affairs Ministry supported by Piramal Foundation and Bill and Melinda Gates Foundation (BMGF).
- This Collaborative is a unique initiative bringing together governments, philanthropists, national and international foundations, NGOs/CBOs to end all preventable deaths among the tribal communities of India.
- It aims to build a sustainable, high-performing health eco-system to address the key health challenges faced by the tribal population of India.
- It will begin its operations with 50 tribal, Aspirational Districts (with more than 20% ST population) across 6 high tribal population states.
- Over a 10-year period, the work of the THC will be extended to 177 tribal Districts as recognised by the Ministry of Tribal Affairs.

2) INS Sarvekshak, sometimes seen in the news recently, is a/an/the?

- a. Off Shore Patrol Vessel
- b. Hydrographic Survey Ship
- c. Indian Naval Submarine Base
- d. Deep-submergence rescue vehicle

Answer : b

- INS Sarvekshak, a hydrographic survey ship, is on a deployment to Mauritius for undertaking joint hydrographic surveys along with their Mauritian counterparts.
- During the deployment, training of Mauritian personnel on advanced hydrographic equipment and practices will also be undertaken.
- The ship visited Port Louis, Mauritius and commenced the hydrographic survey of 'Deep sea

area off Port Louis'.

INS Sarvekshak

- It is a specialised survey ship, fitted with state-of-the-art survey equipment like Deep Sea Multi-Beam Echo Sounder, Side Scan Sonars and a fully automated digital surveying and processing system.
- In addition, the ship carries an integral Chetak helicopter, which would be extensively deployed during the survey.
- INS Sarvekshak has undertaken various foreign cooperation surveys over the last few years in Mauritius, Seychelles, Tanzania and Kenya.

3) Consider the following statements with respect to *Project Natick*

1. It is an experiment carried out by Microsoft to check the viability of seafloor data storage in the near future.
2. Under the experiment, a shipping container-sized data centre was sunk in to the seafloor off Scotland's Orkney Islands.

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : c

Project Natick

- Microsoft sank a shipping container-sized data centre 117 feet deep in the seafloor off Scotland's Orkney Islands in 2018 as part of its Project Natick.
- The tech giant in September last year said it retrieved the data centre coated in algae, barnacles and sea anemones, **confirming viability of seafloor data storage in the near future.**
- The researchers think this hardware will help them understand why the servers in the underwater datacenter are eight times more reliable than those on land.
- The team hypothesises that the atmosphere of nitrogen, which is less corrosive than oxygen, and the absence of people to bump and jostle components, are the primary reasons for the difference.

4) Which of the following sectors in India is/are approved by the Union Cabinet for the Production-Linked Incentive (PLI) Scheme so far?

1. White Goods
2. Food Products
3. Textile Products
4. Automobiles & Auto Components
5. Manufacturing of Medical Devices

Select the correct answer using the codes given below:

- a. 5 only
- b. All except 1 and 4
- c. All except 3 and 4
- d. None of the above

Answer : c

- In the Union Budget 2021-22, the Finance Minister announced an outlay of INR 1.97 Lakh Crores for the Production-Linked Incentive (PLI) Schemes for 13 key sectors.
- It aims to create national manufacturing champions and generate employment opportunities for the country's youth.

Atmanirbhar Bharat

- PLI Schemes are a cornerstone of the Government's push for achieving an Atmanirbhar Bharat.
- The objective is to make domestic manufacturing globally competitive and to create global Champions in manufacturing.
- The strategy behind scheme is to offer companies incentives on incremental sales from products manufactured in India, over the base year.
- They have been specifically designed to boost domestic manufacturing in sunrise and strategic sectors, curb cheaper imports and reduce import bills, improve cost competitiveness of domestically manufactured goods, and enhance domestic capacity and exports.

Sectors under PLI Scheme

- The first three PLI Schemes were approved earlier in March, 2020 and these were followed by another 10 New PLI Schemes in November, 2020.

Of these, the previous three Schemes have been notified. They are:

1. MeitY - Mobile Manufacturing and Specified Electronic Components
2. D/o Pharmaceuticals - Critical Key Starting Materials (KSMs)/ Drug Intermediates And Active Pharmaceutical Ingredients (APIs)
3. D/o Pharmaceuticals - Manufacturing Of Medical Devices

Out of remaining ten Schemes, six have also been approved by the Cabinet as below:

1. Electronic/Technology Products - MeitY
2. Pharmaceuticals drugs - D/o Pharmaceuticals
3. Telecom & Networking Products - D/o Telecommunications
4. Food Products - Ministry of Food Processing Industries
5. White Goods (ACs & LED) - DPIIT
6. High Efficiency Solar PV Modules - MNRE

Another four Schemes are in process of obtaining Cabinet approval as below:

1. Automobiles & Auto Components - D/o Heavy Industry
2. Advance Chemistry Cell (ACC) Battery - D/o Heavy Industry
3. Textile Products: MMF segment and technical textiles - M/o Textiles
4. Specialty Steel - M/o Steel

5) Which of the following organizations had recently submerged its servers in fluorocarbon-based liquid to improve performance and save energy?

- a. IBM
- b. Google
- c. Microsoft
- d. Facebook

Answer : c

- Microsoft has started to submerge its servers in liquid to improve performance and save energy.
- The fluorocarbon-based liquid works by removing heat as it directly hits components, and the fluid reaches a lower boiling point to condense and fall back into the bath as a raining liquid.
- This liquid cooling has been used by cryptocurrency players to mine for bitcoin and other cryptocurrencies.
- It potentially will eliminate the need for water consumption in data centres.

6) Consider the following statements with respect to *India Energy Exchange (IEX)*

1. It is a virtual exchange used to trade carbon footprints of Industries and discoms.
2. It is launched by Ministry of Environment, Forest, and Climate change.
3. Energy saving certificates and Renewable Energy Certificates are products of IEX.

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 1 and 2 only
- c. 1 and 3 only
- d. 3 only

Answer : d

India Energy Exchange (IEX)

- It provides a nationwide, automated trading platform for physical delivery of electricity, Renewable Energy Certificates and Energy Saving Certificates.
- It enables efficient price discovery and increases the accessibility and transparency of the power market in India while also enhancing the speed and efficiency of trade execution.
- It is a publicly listed company with National Stock Exchange (NSE) and Bombay Stock Exchange (BSE).
- It is approved and regulated by Central Electricity Regulatory Commission (CERC) and has been operating since 2008.
- Products of Indian Energy Exchange (IEX) are as follows
- **Day-Ahead Market (DAM)** - It is a physical electricity trading market for deliveries for any/some/all 15 minute time blocks in 24 hours of next day starting from midnight.
- **Term-Ahead Market (TAM)** - The contracts under TAM cover a range for buying/selling electricity for duration up to 11 days.
- It enables participants to purchase electricity for the same day through intra-day contracts, for the next day through day-ahead contingency, on daily basis for rolling seven days through daily contracts.
- **Renewable Energy Certificates (REC)** - The Renewable Energy (RE) generator can opt to get RECs against green attributes of their generation.
- It aims to ease the purchase of renewable energy by the state utilities and obligated entities, including the states which are not well endowed with RE sources.
- The REC framework seeks to create a national level market for renewable generators to recover their cost.
- **Energy Saving Certificates (ESCerts)** - These are the tradable certificates under the Perform, Achieve, Trade (PAT) Scheme of Bureau of Energy Efficiency (BEE).

7) Which of the following statements are correct with respect to *Wolf-Rayet Star*

1. The massive stars which are at an advanced stage of stellar evolution and losing mass at a very high rate.
2. They are highly luminous objects, a thousand times more than the Sun.

Select the correct answer using the codes given below:

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : c

Wolf-Rayet

- They are massive stars and strip their outer hydrogen envelope which is associated with the fusion of Helium and other elements in the massive core.
- The sequence of Wolf Rayet stars dominated by helium and nitrogen emission lines but can contain some carbon are known as WN Stars.
- While WC stars show no nitrogen and are dominated by helium, carbon and oxygen emission lines.
- Recently, the Indian astronomers have tracked a rare supernova explosion and traced it to one of the hottest kinds of stars called 'Wolf-Rayet' or WR stars.
- The long-term monitoring of these transients opens the door to understand the nature of the exploding star as well as the explosion properties.
- Supernovae (SNe) are highly energetic explosions in the universe releasing an enormous amount of energy.

8) Which of the following statements are correct with respect to *Supreme Court Portal for Assistance in Court's Efficiency (SUPACE)*

1. It is a tool that collects relevant facts and laws and makes them available to a judge.
2. It is designed to correlate and verify evidence in given cases and suggests better judgements to magistrates.

Select the correct answer using the codes given below:

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : a

Supreme Court Portal for Assistance in Court's Efficiency (SUPACE)

- Recently, the Chief Justice of India has launched the Supreme Court Portal for Assistance in Court's Efficiency (SUPACE).
- It is an Artificial Intelligence (AI) portal which is designed to make research easier for judges, thereby easing their workload.
- It is not designed to take decisions, but only to process facts and to make them available to judges looking for an input for a decision.
- It is a perfect blend of human intelligence and machine learning and 'a hybrid system', which works better with human intelligence.
- The portal has ensured that AI only collects all relevant facts & law and makes it available to Judge on their fingertips.
- The AI can process words and figures in a better way and the results only get better with more examples that are given to the system, to process.
- The AI doesn't have access to feelings and emotions and operates in areas of cognition, where understanding takes place only through language and symbols.

9) Which of the following organizations are known as *Bretton Woods Twins*?

- a. IMF & WTO
- b. IMF & World Bank
- c. World Bank & WTO
- d. IMF & World Economic Forum

Answer : b

Bretton Woods Twins

- The IMF was set up along with the World Bank after the Second World War to assist in the reconstruction of war-ravaged countries.
- The two organisations were agreed to be set up at a conference in Bretton Woods in the US.
- Hence, they are known as the Bretton Woods twins.

International Monetary Fund

- Created in 1945, the IMF is governed by and accountable to the 189 countries that make up its near-global membership.
- India joined on 27th December, 1945.
- The Fund's mandate was updated in 2012 to include all macroeconomic and financial sector issues that bear on global stability.
- Reports published by IMF are

1. Global Financial Stability Report
2. World Economic Outlook

10) Consider the following statements with respect to *Seechewal Method*

1. It is a microorganism-based cleaning method used in cleaning arsenic polluted water bodies.
2. National Mission to clean Ganga is implementing this method to remove pollutants from the River.

Which of the statement(s) given above is/are *incorrect*?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : a

Seechewal Method

- It was first introduced by Balbir Singh Seechewal, an environmentalist in Punjab.
- The model is a pipe-and-pump formula used to remove heavy solid particles, oil, and other material from water.
- The Seechewal model has rejuvenated the 160-km Kali Bein, a rivulet of the Beas in the Doaba region of Punjab.
- Under this method first the water from sewerage system is collected in a pond and a filter-mash is used to remove objects floating on the surface of water.
- Then the polluted water is taken into three separate wells,

1. In the first well the silt from the sewerage is removed.
2. In the second well fats, oil is taken away.

3. The third well conveys the cleaned water into the main pond.

- The water collected in the pond is cleaned with sun rays, then a motor pump is installed to lift the treated water to send it to fields for irrigation.



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