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19-24

5 HIGH VALUE QUESTIONS FOR PRELIMS

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Complete GS

(Prelims + Mains)

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(Prelims + Mains)

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5 High Value Prelims Oriented Questions

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Excellent Essay

E-initiative

5 Classes

2 Essays Evaluated

1.

Which of the following is **true** about PARIVESH?

- a) It is an environmental single window hub for Environment, Forest, Wildlife and CRZ clearances launched recently.
- b) Under this plan, all employees in each railway zone will be put through a week's training in skills and knowledge relevant to their work area over next one year.
- c) It is first IT application to be launched on the RailCloud. It is the platform for resolution of service related grievances of serving and former railway employees
- d) A new national programme to improve energy performance of buildings and cities. It would support enhancement of knowledge and practice to save energy in design, construction and operation of buildings.

1. CORRECT ANSWER

Which of the following is **true** about PARIVESH?

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- b) Under this plan, all employees in each railway zone will be put through a week's training in skills and knowledge relevant to their work area over next one year.
- c) It is first IT application to be launched on the RailCloud. It is the platform for resolution of service related grievances of serving and former railway employees
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PARIVESH

- PARIVESH stands for Pro Active and Responsive facilitation by Interactive, Virtuous and Environmental Single-window Hub.
- This portal is developed under the Digital India initiative of the Modi govt. and will realize the dream of Minimum Government and Maximum Governance.
- At PARIVESH portal, people can easily submit their applications online and can also track the status of such proposals at various stages of processing. This is a workflow based application which is based on the concept of web architecture.
- This is a Single window Integrated Environmental Management System for Forest, Wildlife, Environment and Coastal Regulation Zone (CRZ) clearances.
- PM Narendra Modi has launched PARIVESH Portal on the occasion of World Biofuel Day (11 August 2018).
- E-Governance is the core objective and this is a major step towards Ease of Doing Business. People can access the portal at <https://parivesh.nic.in>.

Project Saksham

- Under this plan, all employees in each railway zone will be put through a week's training in skills and knowledge relevant to their work area over next one year

NIVARAN Grievance Portal

- It is first IT application to be launched on the RailCloud. It is the platform for resolution of service related grievances of serving and former railway employees

Initiative to Promote Habitat Energy Efficiency (I-PHEE)

- A new national programme to improve energy performance of buildings and cities. It would support enhancement of knowledge and practice to save energy in design, construction and operation of buildings.

2. CORRECT ANSWER

Standing Deposit Facility Scheme often in news is related to:

- a) Toolkit of monetary policy for absorption of surplus liquidity.
- b) A revised framework for quicker and time bound resolution of NPA(non-performing assets)
- c) To provide substantiate income to the elderly people
- d) Debt Instrument with which entity raise money from investors to fun green projects

2.

Standing Deposit Facility Scheme often in news is related to:

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- b) **A revised framework for quicker and time bound resolution of NPA(non-performing assets)**
- c) **To provide substantiate income to the elderly people**
- d) **Debt Instrument with which entity raise money from investors to fun green projects**

STANDING DEPOSIT FACILITY SCHEME

- Standing deposit facility is a remunerated facility that will not require the provision of collateral for liquidity absorption

3.

Which of the following is true about LaCONES ?

- a) **A dedicated facility of CSIR's Centre for Cellular and Molecular Biology (CCMB) in Hyderabad uses modern biotechnologies for conservation of endangered wildlife.**
- b) **This initiative works towards nurturing knowledge-based and technology-driven ideas and innovations into successful start-ups.**
- c) **It is an initiative to make India one of the world leaders in Supercomputing and to enhance India's capability in solving grand challenge problems of national and global relevance**
- d) **None of the above.**

3. CORRECT ANSWER

Which of the following is true about LaCONES ?

- a) **A dedicated facility of CSIR's Centre for Cellular and Molecular Biology (CCMB) in Hyderabad uses modern biotechnologies for conservation of endangered wildlife.**
- b) **This initiative works towards nurturing knowledge-based and technology-driven ideas and innovations into successful start-ups.**
- c) **It is an initiative to make India one of the world leaders in Supercomputing and to enhance India's capability in solving grand challenge problems of national and global relevance**
- d) **None of the above.**

LaCONES (PIB)

- Union Minister for Science & Technology, Earth Sciences & Environment, Forest & Climate Change Minister Dr Harsh Vardhan today dedicated India's only facility for conservation of endangered species.
- The Laboratory for the Conservation of Endangered Species (LaCONES), a dedicated facility of CSIR's Centre for Cellular and Molecular Biology (CCMB) in Hyderabad uses modern biotechnologies for conservation of endangered wildlife.
- Dr Harsh Vardhan lauded the efforts of scientists at CCMB in producing off-springs of blue rock pigeon, spotted deer and blackbuck, which were on the verge of extinction, through artificial insemination of cryopreserved sperm.
- CCMB scientists in collaboration with Nehru Zoological Park, Hyderabad have now rescued Indian Mouse Deer from extinction through successful conservation breeding programme.
- CCMB-LaCONES is the only laboratory in India that has developed methods for collection and cryopreservation of semen and oocytes from wildlife and successfully reproducing endangered blackbuck, spotted deer and Nicobar pigeons.
- Through this work, it has established Genetic Resource Bank for Indian wildlife.
- So far, genetic resources from 23 species of Indian wild animals have been collected and preserved. This facility would increase the collection of genetic resources from wildlife through collaboration with zoos in India.
- It would also facilitate exchange of genetic material between the Indian zoos for maintaining genetic diversity and conservation management made accessible to scientists and wildlife managers for implementing conservation programs.

NIDHI

(National Initiative for Development and Harnessing Innovations)

- It works towards nurturing **knowledge-based and technology-driven ideas** and innovations into successful **start-ups**.

NATIONAL SUPERCOMPUTING MISSION

- To make India one of the world leaders in Supercomputing and to enhance India's capability in solving grand challenge problems of national and global relevance

4. FROM OUR TEST SERIES

Consider the following statements :

- 1. Second Generation Biofuel are produced from marginal croplands unsuitable for food production or non-food crops.**
- 2. Third Generation Biofuels are based on improvements on the production of biomass by taking advantage of specially engineered energy crops.**

Which of the following statements is/are correct?

- a. Only 1**
- b. Only 2**
- c. Both 1 and 2**
- d. Neither 1 and 2**

4. CORRECT ANSWER

Consider the following statements :

1. **Second Generation Biofuel are produced from marginal croplands unsuitable for food production or non-food crops.**
2. **Third Generation Biofuels are based on improvements on the production of biomass by taking advantage of specially engineered energy crops.**

Which of the following statements is/are correct?

- a. Only 1
- b. Only 2
- c. Both 1 and 2**
- d. Neither 1 and 2

First Generation Biofuels

- First Generation biofuels are produced directly from food crops by abstracting the oils for use in biodiesel or producing bioethanol through fermentation.
- Crops such as wheat and sugar are the most widely used feedstock for bioethanol while oil seed rape has proved a very effective crop for use in biodiesel.
- However, first generation biofuels have a number of associated problems. There is much debate over their actual benefit in reducing green house gas and co2 emissions due to the fact that some biofuels can produce negative Net energy gains, releasing more carbon in their production than their feedstock's capture in their growth.
- However, the most contentious issue with first generation biofuels is 'fuel vs food'. As the majority of biofuels are produced directly from food crops the rise in demand for biofuels has led to an increase in the volumes of crops being diverted away from the global food market.
- This has been blamed for the global increase in food prices over the last couple of years.

Second Generation Biofuels

- Second Generation biofuels have been developed to overcome the limitations of first generation biofuels.
- They are produced from non-food crops such as wood, organic waste, food crop waste and specific biomass crops, therefore eliminating the main problem with first generation biofuels.
- Second Generation biofuels are also aimed at being more cost competitive in relation to existing fossil fuels.
- Life cycle assessments of second-generation biofuels have also indicated that they will increase 'net energy gains' over coming another of the main limitations of first generation biofuels.

Third Generation Biofuels

- The Third Generation of biofuels is based on improvements in the production of biomass.
- It takes advantage of specially engineered energy crops such as algae as its energy source.
- The algae are cultured to act as a low-cost, high-energy and entirely renewable feedstock.
- It is predicted that algae will have the potential to produce more energy per acre than conventional crops.
- Algae can also be grown using land and water unsuitable for food production, therefore reducing the strain on already depleted water sources.
- A further benefit of algae based biofuels is that the fuel can be manufactured into a wide range of fuels such as diesel, petrol and jet fuel.

Fourth Generation Biofuels

- Four Generation Bio-fuels are aimed at not only producing sustainable energy but also a way of capturing and storing CO_2 .
- Biomass materials, which have absorbed CO_2 while growing, are converted into fuel using the same processes as second generation biofuels.
- This process differs from second and third generation production as at all stages of production the carbon dioxide is captured using processes such as oxy-fuel combustion.
- The carbon dioxide can then be geosequestered by storing it in old oil and gas fields or saline aquifers.
- This carbon capture makes fourth generation biofuel production carbon negative rather than simply carbon neutral, as it is 'locks' away more carbon than it produces.
- This system not only captures and stores carbon dioxide from the atmosphere but it also reduces CO_2 emissions by replacing fossil fuels.

5. FROM TODAY'S LECTURE

Which of the following statements are true?

- 1) **Allen's rule says that mammals from colder climates will generally have shorter ears and limbs to minimize heat loss.**
 - 2) **Many desert plants have a thick cuticle on their leaf surfaces to minimize water loss.**
 - 3) **Opuntia, a desert plant, have very broad leaves contrary to what is found in deserts.**
- a) 1 and 2 only
 - b) 2 and 3 only
 - c) 3 only
 - d) All of the above

5. CORRECT ANSWER

Which of the following statements are true?

- 1) **Allen's rule says that mammals from colder climates will generally have shorter ears and limbs to minimize heat loss.**
- 2) **Many desert plants have a thick cuticle on their leaf surfaces to minimize water loss.**
- 3) **Opuntia, a desert plant, have very broad leaves contrary to what is found in deserts.**

a) 1 and 2 only

b) 2 and 3 only

c) 3 only

d) All of the above

**Keep Working
Hard
To Have a**

