

Q: Consider the following statement:

1. India will take its non-fossil energy capacity to 500 GW by 2030.
2. By 2030, India will reduce the carbon intensity of its economy by more than 45 per cent.
3. By 2050, India will achieve the target of Net Zero.

Which among the following is the realized vision of PM, which he referred to as “Panchamrit”:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- The ‘Puneet Sagar Abhiyan’ is among the slew of initiatives taken by the Government to realise the vision of Prime Minister’s, which he referred to as ‘**Panchamrit**’ during the **26th United Nations Climate Change conference, COP26**, held in Glasgow, Scotland between October 31 to November 13, 2021.
- The Prime Minister had presented five nectar elements as India’s unprecedented contribution to deal with climate change. These are:
 - a) India will take its non-fossil energy capacity to 500 GW by 2030.
 - b) India will meet 50 per cent of its energy requirements from renewable energy by 2030.
 - c) India will reduce the total projected carbon emissions by one billion tonnes from now till 2030.
 - d) By 2030, India will reduce the carbon intensity of its economy by more than 45 per cent.
 - e) By 2070, India will achieve the target of Net Zero.

Q: Consider the following statement:

1. Power sector Non-banking finance company (NBFC), REC Ltd, granted Navratna Status.
2. The company is subject to a ceiling of 15 per cent of the net worth.
3. REC can also enter into technology Joint Ventures or other strategic alliances among others.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: b

Explanation:

- Recently, Power sector focussed non-banking finance company (NBFC) REC Ltd. has been accorded the status of a ‘Maharatna’ Central Public Sector Enterprise, thus providing it with greater operational and financial autonomy.
- The granting of ‘Maharatna’ status will impart enhanced powers to the company’s board while taking financial decisions.
- The board of a ‘Maharatna’ CPSE can make equity investments to undertake financial joint ventures and wholly-owned subsidiaries and undertake mergers and acquisitions in India and abroad, subject to a ceiling of 15 per cent of the net worth of the CPSE concerned, limited to ₹5,000 crore in one project.
- The Board can also structure and implement schemes relating to personnel and Human Resource Management and Training.
- With this, REC can also enter into technology Joint Ventures or other strategic alliances among others.

Q: Consider the following statement:

1. Cancer cells secrete extracellular vesicles (EV) covered with sugar molecules.
2. EVs are abundant in body fluids.

Choose the correct option from the codes given below:

- a) 1 Only

- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: c

Explanation:

- Cancer cells secrete small pouches, namely extracellular vesicles (EV) covered with sugar molecules, Hyaluronan (HA), which has a direct link to tumour malignancy and is considered a potential biomarker for early diagnosis of colon cancer.
- These EVs are abundant in body fluids (blood, faeces, etc.), and all types of cells secrete these EVs into the extracellular matrix.

Q: Consider the following statement:

1. NCC and UNEP signed a MoU to tackle the issue of plastic pollution
2. The aim is to synergise and collate efforts towards engaging youth for promoting clean water bodies.
3. Puneet Sagar Abhiyan is related to achieve universal goal of clean water bodies.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: d

Explanation:

- Recently, the National Cadet Corps (NCC) and United Nations Environment Programme (UNEP) signed a Memorandum of Understanding (MoU) in New Delhi to tackle the issue of plastic pollution and achieve the universal goal of clean water bodies through 'Puneet Sagar Abhiyan' and 'Tide Turners Plastic Challenge programme'.
- The aim of the MoU between NCC and UNEP is to synergise and collate efforts towards engaging youth for promoting clean water bodies.

Q: Consider the following statement regarding 'Nistar' and 'Nipun':

1. These are indigenously designed and built Diving Support Vessels (DSVs) of the Indian Navy.
2. It will be deployed for deep sea diving and submarine rescue operations
3. These are designed and built at Cochin Shipyard Ltd.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- Recently, two indigenously designed and built Diving Support Vessels (DSVs) of the Indian Navy, named 'Nistar' and 'Nipun' were launched in Visakhapatnam.
- The DSVs are first-of-its-kind ships, indigenously designed and built at Hindustan Shipyard Ltd, Vishakhapatnam.
- 'Nistar' and 'Nipun' were launched by achieving approximately 80 per cent indigenous content, a major step towards "self-reliance".
- The DSV project has generated local employment opportunities and promoted indigenisation which will boost India's economy.
- The DSVs, equipped with an array of complex diving support systems and Deep Submergence Rescue Vessel (DSRV), will be deployed for deep sea diving and submarine rescue operations.

