

Target Prelims 2023

Environment and Ecology Session - I

Q1. With reference to the Tiger Census recently in news, consider the following statements :

1. It is a biennial exercise carried out by the NTCA to provide an exact count of the tiger population in India.
2. The launch of Project Tiger in 1973 paved the way for conduction of the first tiger census across the country.
3. India now accounts for more than 70% of the global tiger population.
4. M-STripES and CaTRAT are the tools which help in measuring the tiger population in India.

Which of the above statements are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 3 and 4 only
- d) 1 and 3 only

Q2. Consider the following landscapes of the country :

1. Shivalik Gangetic plains
2. The Eastern Ghats
3. The Western Ghats
4. North Eastern Hills and Brahmaputra Flood Plains
5. Sundarbans

Which amongst the above are the habitats where we can find the tiger population in existence?

- a) 2, 3 and 5 only
- b) 3, 4 and 5 only
- c) 1, 2, 3, 4 and 5
- d) 1, 3, 4, and 5 only

Q3. With reference to the Kunming - Montreal Agreement in news recently, consider the following statements :

1. It was finalised at the 15th Conference of Parties to the Convention on Biological Diversity.
2. To remove the issue of conflict of interest, the agreement aims to seek financing from the governments and the NGOs only.
3. The Global Environment Facility provides the funding for the UN Convention on Biological Diversity.

Which of the above statements are correct?

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

Q4. Consider the following statements with reference to the 'International Big Cat Alliance', an initiative to protect the wild populations of big cat species :

1. The countries with the natural ranges of big cats shall only be considered to be the members of this alliance.
2. The funding for the conservation shall be provided by Global Environment Facility (GEF) with World Bank being the trustee.

Which of the above statements are incorrect?

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

Q5. With reference to the Convention on International Trade in Endangered Species, consider the following statements :

1. Recently, India amended the Wildlife Act 1972, in order to adhere to the norms provided by CITES.
2. Appendix I species are provided with maximum protection and no trade is allowed for the species listed in it.
3. India has hosted only one Conference of Parties meeting to the CITES, held annually since the inception of the convention.

Select the correct statement/s from above :

- a) 1 & 2 only
- b) 2 & 3 only
- c) 1 only
- d) 1, 2 & 3

Q6. With reference to the pH levels of oceanic waters, consider the following statements :

1. The pH levels of oceanic waters is reducing at an alarming rate due to increasing CO₂ emissions in the atmosphere.
2. The species of clownfish are unable to locate the predators due to increased acidification of oceans.
3. Sea Cucumbers are vital to help control the acidification of oceans through their excretions.
4. The increased CO₂ absorptions shall benefit the growth of coral reefs by increased photosynthesis.

Which of the above statements are correct?

- a) 1 and 4 only
- b) 1, 2 and 3 only
- c) 2, 3 and 4 only
- d) 1 and 3 only

Q7. With regards to offshore wind generation, consider the following statements :

1. It is a more reliable energy generation source as compared to onshore wind generation.
2. The Global Offshore Wind Alliance has been initiated by the International Renewable Energy Agency (IRENA) and the Global Wind Energy Council.

Which of the above statements is/are correct?

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

Q8. 'Carbon border adjustment mechanism' is an initiative undertaken by the European Union for will have which of the following outcomes :

1. Ensuring the accountability of carbon emissions to the nations under the European Union.
2. Higher taxes will be charged from the carbon intensive industries.
3. It will help to eliminate the difference in price paid for the products imported from the high emission developing countries .
4. It will hurt India the most as compared to countries like Russia and China.

Select the correct statements :

- a) 1 and 2 only
- b) 2 and 3 only
- c) 2, 3 and 4 only
- d) 1 and 4 only

Q9. 'Carbon Leakage' is a term used to describe which of the following :

- a) Lack of proper scrutiny leading to increased emissions by the nations.
- b) Carbon emissions caused by anthropogenic activities having a devastating impact on the nearby Eco Sensitive Zones.
- c) Undermining the global efforts to combat climate change by transfer of production centres.
- d) The excess emissions of carbon compounds which slowly begin to accumulate in the upper atmosphere.

Q10. With reference to 'Mission LiFE', consider the following statements :

1. It was introduced by India at the COP 27 (Egypt) to the United Nations Framework Convention on Climate Change in 2022.
2. Seeks to launch a movement of P3 (Pro - Planet People), nudging the rest of the world for a sustainable living.
3. Actions such as water harvesting are not included in this as it seeks to combat the problem of pollution.

Which of the statement/s is/are incorrect?

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

Q11. Consider the following statements for the 'Global Environment Facility' :

1. It was created as a result of the Stockholm conference 1972, in order to provide funding for the environmental activities.
2. Provides funding only for the 'Conventions of Rio - Convention on Biological diversity, convention to combat desertification and the UN framework convention on climate change'.

Which of the statement/s is/are correct ?

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

Q12. Consider the following statements for 'Stockholm + 50';

1. Was held in Stockholm, Sweden and co - hosted by Rwanda.
2. Sustainable recovery from Covid 19 pandemic was included in the agenda.
3. It celebrated 50 years of the Stockholm conference 1972.

Which of the above statements are correct?

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

Q13. In the context of the IPCC releasing the latest 6th Assessment report, consider the following statements:

1. Assessment report is a single detailed document released every few years by the IPCC in order to indicate the changes due to global warming.
2. AR 6 has indicated the need for the world to be carbon negative from 2050 onwards.
3. IPCC was formed in 1988 by the World Meteorological Organisation and United Nations Environment Programme.

Which of the following statements is/are correct?

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

Q14. With reference to the Global Methane Pledge, consider the following statements:

1. It is an initiative launched by the United States and the European Union.
2. More than 100 countries have become a part of this including India.
3. The aim is to collectively reduce methane emissions by 30% of 2022 levels by 2030.

Which of the above statements is/are correct?

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

Q15. Adaptation Gap Report is released by which of the following organisations?

- a) Intergovernmental Panel on Climate Change
- b) World Wildlife Fund
- c) United Nations Environment Programme
- d) Global Environment Facility

Q16. Consider the following statements about Methane Alert and Response System (MARS) :

1. UNEP's International Methane Emissions Observatory (IMEO) launched the system at COP27 to UNFCCC.
2. It seeks the usage of earth observation satellites for monitoring of methane emissions.
3. The International Energy Agency along with Climate and Clean Air Coalition are partners in launching the system.

Which of the above statements are correct?

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

Q17. Which of the following can be used to best describe the conditions of Eutrophication:

- a) It is only observed in polluted lakes and ponds.
- b) Dumping of untreated sewage in the water body can give rise to eutrophication.
- c) The water body is devoid of all nutrients.
- d) The biological oxygen demand of the water body experiences a sharp decline.

Q18. Consider the following statement about cryomesh technology, recently in news:

1. It provides a boost for the growth of corals, ensuring a quick development of reefs.
2. They can be helpful in preserving the genetic diversity of corals.
3. This was implemented successfully in the Gulf of Kutch to ensure sustainability of the coral reefs.

Which of the above statements is/are correct?

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

Q19. With regards to deforestation, consider the following statements :

1. It is the second biggest source of anthropogenic emission of carbon in the atmosphere.
2. It leads to a significant loss of biodiversity.
3. REDD+ is an initiative of the United Nations Framework Convention on Climate Change to reduce emissions from deforestation in developing countries.

Which of the above statements is/are correct?

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

Q20. Consider the following statements with reference to blue flag certification :

1. Maharashtra is the only coastal state in India with no blue flag certified beaches.
2. The certification is provided annually by Foundation for Environmental Education.
3. Spain has the largest number of blue flag certified beaches in the world.

Which of the above statements is / are incorrect?

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

Q21. Bonn challenge is associated with?

- a) Conservation of Migratory species
- b) Restoration of the coastal ecosystem
- c) Reclamation of degraded land
- d) Limiting the Carbon Dioxide emissions in the atmosphere