

1. Consider the following statements about the Global Plastics Treaty:
  1. The treaty aims to reduce plastic pollution by setting legally binding targets for all member countries.
  2. The treaty was adopted by the United Nations Framework Convention on Climate Change in 2024.
  3. The treaty focuses solely on reducing single-use plastics.
 How many of the above statements is/are correct?  
**(a) Only one**  
 (b) Only two  
 (c) All three  
 (d) None
2. Which of the following statements is true about the Kunming-Montreal Global Biodiversity Framework (KMGBF)?
  - (a) The framework was established to address climate change through a global carbon trading system.
  - (b) The KMGBF aims to halt and reverse biodiversity loss by 2030, with specific targets such as conserving 30% of the world's land and oceans.**
  - (c) The framework primarily focuses on economic development in developing countries with no specific targets for biodiversity.
  - (d) The KMGBF includes a single target of planting 1 trillion trees worldwide by 2050.
3. Consider the the following statements about the 'Climate Smart Cities Assessment Framework (CSCAF)':
  1. It was launched by the Ministry of Environment, Forest and Climate Change (MoEFCC).
  2. It intends to inculcate a climate-sensitive approach to urban planning and development in India.
 Which of the given above statements is/are correct?  
 (a) 1 only  
**(b) 2 only**  
 (c) Both 1 and 2  
 (d) Neither 1 nor 2
4. The Pantanal wetlands, one of the world's largest tropical wetland areas, is known for its biodiversity and ecological importance. Which of the following statements about the Pantanal is correct?
  - (a) The Pantanal wetlands are located primarily in Argentina.
  - (b) The Pantanal is a major agricultural area, dominated by rice and wheat cultivation.
  - (c) The Pantanal is home to the world's largest population of jaguars.**
  - (d) The Pantanal experiences a very mild and consistent climate year-round with minimal seasonal variation
5. Consider the following:
  1. Aerosols
  2. Foam agents
  3. Fire retardants
  4. Lubricants
 In the making of how many of the above are hydrofluorocarbons used?  
 (a) Only one  
 (b) Only two  
**(c) Only three**  
 (d) All three
6. With reference to marriage in India, consider the following statements:
  1. The right to marry is a fundamental right in India.
  2. Same-sex marriage is legalized in India.
  3. The Special Marriage Act, 1954 allows persons from two different religions to marry.
 How many of the statements given above are correct?  
**(a) Only one**  
 (b) Only two  
 (c) All three  
 (d) None
7. Which of the following statements accurately reflects the purpose of the 'safeEXO-Cas' technology?
  - (a) It aims to enhance agricultural productivity by increasing crop yield.
  - (b) Its primary goal is to combat climate change by reducing carbon emissions.
  - (c) The technology is designed to safely and precisely edit genes in living organisms.**
  - (d) Its purpose is to facilitate faster and more efficient data transmission in telecommunications.
8. Consider the following statements about genetic editing:
  1. Statement 1: CRISPR-Cas9 is a widely used genetic editing tool that allows for precise modifications to DNA sequences.

2. Statement 2: Genetic editing has only been successful in laboratory settings and has no practical applications in agriculture or medicine.
3. Statement 3: Ethical concerns regarding genetic editing primarily focus on the potential for unintended consequences and the possibility of creating "designer babies."
- Which of the above statements is/are correct?
- (a) Only Statement 1 is correct.  
(b) Only Statement 3 is correct.  
**(c) Both Statement 1 and Statement 3 are correct.**  
(d) All Statements (1, 2, and 3) are correct
9. Consider the following statements regarding Bt cotton:
1. Bt cotton is genetically modified to express the *Bacillus thuringiensis* (Bt) toxin.
  2. The Bt toxin in Bt cotton provides resistance against bollworms.
  3. Bt cotton completely eliminates the need for pesticide use.
  4. Bt cotton is the only genetically modified crop currently approved for cultivation in India.
- How many of the above statements are correct?
- (a) Only one  
(b) Only two  
**(c) Only three**  
(d) All four
10. Under which ministry does the Genetic Engineering Appraisal Committee (GEAC) operate?
- (a) Ministry of Agriculture and Farmers' Welfare  
**(b) Ministry of Environment, Forest and Climate Change**  
(c) Ministry of Science and Technology  
(d) Ministry of Health and Family Welfare