

1-Consider the following statements regarding Kelps

1. Kelps are large brown algae seaweeds that can survive freezing temperatures and long periods of darkness, and even grow under sea ice.
2. Kelp forests help protect coastlines by decreasing the power of waves during storms and reducing coastal erosion.
3. It is an important source of potash and iodine.

Which of the above statements is/are correct?

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

2-Which of these activities are usually restricted (partially or fully) in National parks?

- | | |
|-----------------------------------|-------------------------------------|
| 1. Hunting of wild animals | 2. Destruction of habitat |
| 3. Construction of tourist lodges | 4. Collecting minor forest products |

Select the correct answer code:

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

3-Consider the following statements regarding fine particulate matter (PM_{2.5}).

1. They are visible to the naked eye causing haze in the traffic.
2. Their levels are most likely to be elevated on days with little or no wind or air mixing.
3. They can bypass the nose and throat and can easily enter the circulatory system.

Which of the above statements is/are correct?

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

4-Consider the following statements regarding World Wildlife Fund (WWF).

1. It has an office/branch even in Antarctica.
2. It was established right after the Rio Earth Summit, 1992.
3. WWF-India is India's nodal agency for implementing the conservation goals under the Sustainable Development Goals (SDGs).

Which of the above statements is/are incorrect?

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

5-What is/are the differences between a primary pollutant and a secondary pollutant?

1. A primary pollutant is an air pollutant emitted directly from a source unlike a secondary pollutant.
2. A primary pollutant has a much shorter life in the atmosphere than a secondary pollutant.
3. A primary pollutant is characterized as less potent or harmful than a secondary pollutant.

Select the correct answer code:

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

6-Why do exotic species post a threat to an indigenous ecosystem such as in a Lake or an isolated island in the Andamans?

1. Such species compete with the local or native species for food.
2. They may be predators of local species.
3. Such species may cause diseases in native species.

Select the correct answer code:

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

d) 2, 3

7-Which of the following contribute to the oxygen cycle on earth?

1. Oxidation of volcanic gases
2. Chemical weathering
3. Surface reaction of O₃ (Ozone)

Select the correct answer code:

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

8-The Ocean/Sea that has the most coral species is?

- a) Pacific Ocean
- b) Atlantic Ocean
- c) Indian Ocean
- d) Mediterranean Sea

9-Bioreactors can be used to

1. Treat sewage and wastewater
2. Grow phototrophic organisms like algae

Which of the above statements is/are incorrect?

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

10-What are the sources that add nitrogen oxides into the atmosphere?

1. Bacteria living in soil
2. Reaction of Ultraviolet radiation with ozone
3. Lightning stroke

Select the correct answer code:

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

11- Consider the following statements regarding Nuclear Energy Agency (NEA).

1. It is an intergovernmental agency that is organized under the Organisation for Economic Co-operation and Development (OECD).
2. It assists member countries in maintaining and further developing safe, environmentally friendly and economical use of nuclear energy for peaceful purposes.

Which of the above statements is/are correct?

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

12- Which of the following causes a fatal blood disease, sometimes noted in the wool industry?

- a) Anthrax
- b) Clostridium
- c) Aspergillus
- d) Salmonella

13- Consider the following statements about Treaty on the Prohibition of Nuclear Weapons (TPNW).

1. It is the first legally binding international agreement to comprehensively prohibit nuclear weapons.
2. It was passed in 1974 after India conducted its first nuclear test.
3. The treaty prohibits the development, testing, production, stockpiling, transfer and use of nuclear weapons for all the UN member countries.

Which of the above statements is/are correct?

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

d) 1, 2, 3

14- Which of the following are some of most common rare diseases recorded in India?

1. Haemophilia
2. Thalassemia
3. Sickle-cell anaemia

Select the correct answer code:

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

15- Consider the following pairs regarding the Atomic Power Plants and its location

1. Kakrapar Atomic Power Plant: Rajasthan
2. Narora Atomic Power Station: Gujarat
3. Kudankulam Nuclear Power Plant: Tamil Nadu
4. Kaiga Atomic Power Station: Karnataka

Which of the above are correctly matched?

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

16- Consider the following statements regarding Total Polar Compounds (TPC).

1. TPC is used to measure the quality of cooking oil.
2. The level of TPC decreases every time oil is re-heated.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

d) Neither 1 nor 2

17- Nuclear science is being utilized in which of the following areas of agriculture in India?

1. Development of high yielding crop seeds
2. Fertilizer and pesticide related studies
3. Radiation processing of food items

Select the correct answer code:

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

18- Consider the following symptoms and the deficiency of the particular vitamin that is associated with the same:

1. Loss of vision in darkness: Vitamin D
2. Weak muscles and very little energy to work: Vitamin B1
3. Wounds take longer to heal: Vitamin C

Select the correct answer code:

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

19- Consider the following statements regarding International Atomic Energy Agency (IAEA).

1. IAEA is entrusted with the task of upholding the principles of the Nuclear Non-Proliferation Treaty of 1970.
2. IAEA works with its member states and multiple partners worldwide to promote the safe, secure and peaceful use of nuclear technologies.
3. Established under the UN treaty, the agency reports to both the UN General Assembly and the UN Security Council.

Which of the above statements is/are correct?

- a) 1, 2

b) 1, 3

c) 2 only

d) 2, 3

20- Ailments caused by Virus are

- | | |
|---|--------------|
| 1. Severe acute respiratory syndrome (SARS) | 2. Typhoid |
| 3. Dysentery | 4. Influenza |

Select the correct answer code:

a) 1, 2

b) 2, 4

c) 1, 4

d) 1, 3

21. Consider the following statements regarding Alphabet to launch a new robotics company

1. Google-parent Alphabet will launch a new robotics company, Intrinsic which will focus on building software for industrial robots.
2. The segment comes out of X, Alphabet's Moonshot factory that houses futuristic firms such as Waymo, Wing and Verily.

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

22. Consider the following statements regarding the State of Climate Services Report 2021:

1. It is released by the World Meteorological Organization (WMO).
2. India's average Terrestrial Water Storage (TWS) loss in the last two decades is higher than the global average.
3. The northeastern part of India has experienced the maximum TWS loss within the country.

Which of the statements given above is/are correct?

(a) 1 and 2 only

(b) 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

23. With reference to Pre-Matric Scholarship Scheme, consider the following statements:

1. It is a centrally funded scholarship scheme for students in the backward states only.
2. It aims to help students of minority communities only.

Which of the statements given above is/ are correct?

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

24. With reference to Multidimensional Poverty Index, consider the following statements:

1. It is jointly released by the World Bank and ILO.
2. It uses education, health, and standard of living as its indicators.
3. A person is said to be multidimensional if she/he is deprived of one third or more of the weighted indicators.

Which of the above statements is/are correct?

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

25. Consider the following statements regarding BRAZIL

1. Capital: Brasilia
2. Currency: Brazilian Riyal

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

ANSWER SHEET

1	D	10	B	19	A
2	D	11	C	20	C
3	B	12	A	21	C
4	D	13	A	22	A
5	A	14	D	23	B
6	C	15	C	24	C
7	B	16	A	25	A
8	A	17	D		
9	D	18	C		