

1. Environmental degradation means
  - (a) Overall lowering of environmental qualities.
  - (b) Adverse change brought in by human activities.
  - (c) Ecological imbalance
  - (d) All the above
2. Which of the following conditions indicate the impact of global warming?
  1. Melting of glaciers
  2. Lowering down of sea level
  3. Changes in weather conditions
  4. Rise in global temperature

Select the correct answer from the codes given below:

Codes:

- (a) 1 and 2
  - (b) 1, 2 and 3
  - (c) 1, 3 and 4
  - (d) 1, 2, 3 and 4
3. Which one of the following pairs is not correctly matched?
    - (a) Kyoto Protocol — Carbon Trading
    - (b) Environmental — Leopold Matrix impact assessment
    - (c) The year without — 1816 summer
    - (d) Milankovich — On the origin of Theory Species

4. Which of the following statements are true about ecosystem?

Select the correct answer from the codes:

1. Ecosystem comprises both biotic and abiotic components.
2. Solar radiation is the main driving force of the ecosystem.
3. Ecosystem is a closed system.
4. Ecosystem does not have its own productivity

Codes:

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

5. Which one of the following statements is not correct?

- (a) Ecosystem's structure, species composition and functioning change seasonally between years.
- (b) Nature has spent millions of years to refine a stable ecosystem.
- (c) Ecosystem functions mainly through the input of solar energy
- (d) The relative loss of energy due to respiration decreases with higher trophic levels

6. Which one of the following statements is correct?

- (a) The relative loss of energy due to respiration is lower from higher trophic levels.
- (b) Species at higher trophic levels appear to be less efficient in using their available food supply.
- (c) Higher trophic levels tend to be less discrete than the lower ones.
- (d) Food chains tend to be reasonably long.

7. Consider the following protected areas:

- |             |                 |
|-------------|-----------------|
| 1. Bandipur | 2. Bhitarkanika |
| 3. Manas    | 4. Sunderbans   |

Which of the above are declared Tiger Reserves?

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

8. With reference to the wetland of India, consider the following statements:

- 1. The country's total geographical area under the category of wetlands is recorded more in Gujarat as compared to other states.
- 2. In India, the total geographical area of coastal wetlands is larger than that of inland wetlands.

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

9. Which of the following can be threats to the biodiversity of a geographical area?

- 1. Global warming
- 2. Fragmentation of habitat
- 3. Invasion of alien species
- 4. Promotion of vegetarianism

Select the correct answer using the codes given below:

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

10. Consider the following statements:

**Assertion (A):** Organic farming reduces the emission of greenhouse gases.

**Reason (R):** Organic farming utilise alternate practices.

Select the correct answer from the codes given below:

Codes:

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

11. Consider the following statements regarding 'INS Tarkash'

- 1. It is built indigenously by DRDO.
- 2. It is a multi-role stealth frigate.

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. Consider the following statements with respect to the new Remote Sensing Data Policy:

1. Agencies other than ISRO can also be nodal agencies for remote sensing.
2. All remote sensing imagery and data up to one meter resolution will be made freely available.
3. The old 2001 policy mandated that ISRO could release only data up to 6.8 resolutions.

Which of the statements given above are correct?

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

13. The new version of advanced television, beyond the high definition television is 4 K television.

Consider the following statements in this regard?

1. The basic principle of 4K TV is Near Field Communication (NFC).
2. The term 4K refers to the horizontal resolution of the images, which are all on the order of 4,000 pixels.
3. If the screen is too big then the HD gives the blurred images because the resolution of the images and pixels are limited.

Which of the statements given above are correct?

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

14. What is the difference between present Wi – Fi technology and super Wi – Fi?

1. Present Wi – Fi technology supports 802.11 b/g/n standard while new super Wi – Fi will support 802.11 ad standard.

2. Super Wi – Fi can send data upto the length of 1 – 2 GB and eventually there would be no lag in the speed.

3. The new super Wi – Fi would function at the speed of 7 gigabytes per second, much more than the speed of ordinary Wi – Fi.

Select the correct answer using the codes given below:

(a) 1 and 2 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

15. A team of scientists at NASA with the European Space Agency are working to probe dark energy or the existence of dark matter. Consider the following statements in this regard.

1. Dark matter is called so because it does not interact with light.

2. Dark matter interacts with ordinary matter through gravity and binds galaxies together like an invisible glue.

3. While dark matter pulls matter together, dark energy pushes the universe apart at ever increasing speed.

4. Dark matters are potentially effective in many diagnostic devices such as PET scanners.

Which of the statements given above are correct?

(a) 1, 2 and 3 only

(b) 2, 3 and 4 only

(c) 1, 3 and 4 only

(d) 1, 2, 3 and 4.

16. Consider the following statements about a computer named “Greenware” .

1. ‘Greenware’ is completely free of both hazardous PVC (Polyvinylchloride) and BFR (brominated flame-retardants).

2. Manufacturing of ‘Greenware’ can be a special action like replacing all standard light bulbs with CFLs or a more general application to live more ecologically.

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

17. Consider the following statements regarding the High Frequency Active Auroral Research Programme (HAARP):

1. It is an ionospheric research Program.

2. The purpose of HAARP is to investigate the potential for developing ionospheric enhancement technology for radio communications and surveillance.

3. The most prominent instrument at the HAARP station is the Ionospheric Research Instrument (IRI) a high-power radio frequency transmitter facility operating in the High Frequency (HF) band.

Which of the statements given above are correct?

(a) 1 and 2 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

18. Consider the following statements:

1. Nirbhaya is a subsonic cruise missile being developed by DRDO.

2. The air version of Brahmos has been successfully test-fired recently.

3. Brahmos-II will be hypersonic cruise missile with target range of more than 300 km.

Which of the above statements is/are not true?

(a) 1 and 2 only

(b) 2 and 3 only

(c) All of the above

(d) none of these

19. Recently, scientists have developed a device to near completion like an ipad that could be folded or rolled up repeatedly. What has been used in its development?

(a) Laser Fluidic Imaging Film

(b) Infra-Red Laser Fluidic Imaging Film

(c) NANO Graphene Imaging Film

(d) Electro Fluidic Imaging Film

20. Orbital decay, a process of prolonged reduction in the attitude of a Satellite's Orbit is caused by which of the following reasons?

1. Atmospheric drag
2. Tides
3. Gravitational pull

Correct code:

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

21. Consider the following statements regarding Horticulture Cluster Development Programme (HCDP):

1. It is a Centrally Sponsored Scheme.
2. HCDP will promote the export of horticultural produce.
3. India is the largest producer of horticulture crops globally.

Which of the statements given above is/are correct ?

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

22. Consider the following statements regarding Employee's Provident Fund (EPF) Scheme:

1. It is the main scheme under the Employees' State Insurance Act, 1948.
2. Under this scheme, both the employee and employer contribute 12% of the employee's basic salary and dearness allowance towards EPF.
3. A person mandatorily becomes a member of EPF if his monthly salary does not exceed Rs.15,000.

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. Consider the following statements regarding Employees' Deposit-Linked Insurance (EDLI):

1. It is an insurance cover provided to private sector salaried employees.

2. Any employee who has an Employee Provident Fund (EPF) account automatically becomes eligible for the EDLI scheme.

Which of the statements given above is/are not correct?

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

24. With reference to the 'AmbiTAG', consider the following statements:

1. It is an Internet of Things (IoT) based device.  
2. It is a temperature data logger for cold chain management.

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

25. Consider the following statements:

1. The effectiveness of the Nano Urea Liquid is greater than the conventional urea.  
2. The Nano Urea Liquid is indigenously developed in India.

Which of the statements given above is/are correct?

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

**ANSWER SHEET**

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