

1. Consider the following statements

1. Humification leads to accumulation of a dark colored amorphous substance called humus.
2. Humus is highly resistant to microbial action and undergoes decomposition at an extremely slow rate.
3. The humus is further degraded by some microbes and release of inorganic nutrients occurs by the process known as catabolism.

Which of the above statements is/are correct?

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

2. Consider the following statements regarding Ecological Succession.

1. The gradual and fairly predictable change in the species composition of a given area is called ecological succession.
2. The entire sequence of communities that successively change in a given area are called sere(s).
3. Primary succession begins in areas where natural biotic communities have been destroyed.

Which of the above statements is/are correct?

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

3. Consider the following statements regarding Ecotone. A well-developed ecotone contains some organisms which are entirely different from that of the adjoining communities.

1. Mangrove forests represent an ecotone.
2. The organisms which occur primarily or most abundantly in this zone are known as edge species.

Which of the above statements is/are correct?

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

d) 1, 2, 3

4. In order for biomagnification to occur, the pollutant must be

1. Short-lived
2. Mobile
3. Soluble in fats
4. Biologically inactive

Select the correct answer code:

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

5. Consider the following statements regarding life form in aquatic ecosystem.

1. Neuston: These are unattached organisms which live at the air water interface.
2. Nekton: These are organisms which remain attached to stems and leaves of rooted plants
3. Benthos: The benthic organisms are those found living in the bottom of the water mass.

Which of the above statements is/are correct?

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

6. Which of the following plant micronutrients is associated with chlorophyll formation in plants?

1. Iron
2. Copper
3. Magnesium

Select the correct answer code:

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

c) 2, 3

d) 1, 2, 3

7. Consider the following statements

1. Coniferous trees are most desirable as pulpwood.

2. Shorter the cellulose fiber in the pulp of a tree, the more desirable it is for making paper.

Which of the above statements is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

8. Phytoplankton are generally found in upper layers of ocean water because of

1. Abundant sunlight in the upper layer of ocean water

2. Absence of nutrients in deep ocean water

Select the correct answer code:

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

9. Consider the following statements regarding plant pathogens.

1. Bacteria as well as virus can cause diseases in plants.

2. Pathogen transmission cannot happen by the medium of water.

3. Pathogens can affect plants only after transmitting itself from the root to the shoots.

Which of the above statements is/are correct?

a) 1, 2

b) 1 only

c) 1, 3

d) 1, 2, 3

10. Photoperiodism is a phenomenon related to

- a) Mode of photosynthesis in plants
- b) Flowering in plants
- c) Both a and b
- d) Neither a nor b

11. With reference to Automated Facial Recognition System (AFRS), consider the following statements:

- 1. It is being implemented by the National Crime Records Bureau, is a component of the Crime & Criminal Tracking Network and Systems.
- 2. It will be used only in respect of such persons who figure on the CCTNS & Aadhar data base

Which of the statement/s given above is/are correct?

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

12. Consider the following statements:

- 1. Gold Nano particles can be used for desalinization of seawater.
- 2. No energy is required in desalinization of sea water under reverse osmosis process.

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

13. With reference to Ebola epidemic, consider the following statements:

- 1. It is mainly confined to the African continent
- 2. The origin of the virus is unknown, but fruit bats may be a host
- 3. It can only be confirmed through laboratory testing

Which of the statements given below are correct?

(a) 1 and 2 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

14. With reference to Monkey pox, which of the following statements is correct?

1. It is more virulent and infectious than smallpox.

2. Smallpox vaccine is used for its prevention.

3. It is endemic to south east Asia. Select the correct answer using the code given

(a) 1 and 2 only

(b) 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

15. Which of the following can be said to be the impact of 5G technology?

1. Increase in GDP

2. Creation of Employment

3. Digitization of Economy

Select the correct answer using the code given below:

(a) 2 and 3 only

(b) 1 and 2 only

(c) 1 and 3 only

(d) 1, 2 and 3

16. Consider the following statements

1. The Dark Web only hosts for undertaking illegal activities

2. The surface Web provides for 90% of the internet content

3. Deep web includes intranet hosted by firms and government

Which of the statement/s given above is/are correct?

(a) 1 only

(b) 1 and 2 only

(c) 2 and 3 only

(d) 3 only

17. Indian space station will be placed in the Low Earth Orbit. Which of the following is/are characteristic features of that orbit?

1. Low Earth Orbit satellite typically operate in polar orbits.
2. Low Earth Orbit is used for Mobile Satellite Phone services.
3. Low Earth Orbit is used for Direct-to - Home Television.

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) All of the above

18. Consider the following statements about Libra Currency

1. It is a crypto currency being launched by Facebook.
 2. It will have backing of reserve of real assets to make it more stable
 3. It is based on blockchain technology
- Select the correct answer using the code given below:

(a) 1 only

(b) 2 and 3 only

(c) 1 and 2 only

(d) 1, 2 and 3

19. Consider the following statements regarding TITAN:

1. It is the moon of Saturn.
2. It is the largest natural satellite in the solar system.

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

20. Consider the following statements:

1. Acute Encephalitis Syndrome (AES) is attributed to hypoglycaemia.

2. Hypoglycaemia refers to a condition of high blood sugar.

Which of the following statements given above is/are incorrect?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

21. Consider the following statements regarding Dadasaheb Phalke International Film Festival Awards 2022

1. Film of the Year Award: The Family Man 2

2. Best Actress Award: Kriti Sanon for film Mimi

Which of the above statements is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

22. Consider the following statements about Tennis Federation of India.

1. Gita Mittal appointed as chairperson of Committee of Administrators to run TTFI

2. The Punjab high Court has appointed former Chief Justice of the J&K High Court, Gita Mittal as the Chairperson of the Committee

Which of the above statements is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

23. Consider the following statements regarding National Institutional Ranking Framework (NIRF).

1. National Institutional Ranking Framework (NIRF) for higher education is released by the Union Minister of Education.

2. It ranks only the top 100 educational institutions and universities in India.

Which of the above statements is/are correct?

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

24. Consider the following statements regarding the recently announced AUKUS Pact.

- 1. AUKUS is a trilateral security pact between Australia, the United Kingdom, and the United States.
- 2. The AUKUS pact will facilitate the transfer of nuclear submarine propulsion and manufacturing technologies among its members.
- 3. The member countries have declared AUKUS as a substitute for the Quad.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) All of the three

25. Prime editing, sometimes seen in news is related to

- a) 3D printing Technology
- b) Genome editing technology
- c) Blockchain Technology
- d) Editing subatomic particles in Quantum communication

ANSWER SHEET

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

8	A	17	A
9	B	18	D