

1. Consider the following statements:

1. Shola Grasslands are patches of stunted sub-tropical montane forest.
2. Shola Grasslands are found in higher montane regions of South 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 2

2. Arrange the tiger density in descending order in the following Tiger Reserves:

- (a) Orang > Kaziranga > Jim Corbett > Bandipur  
(b) Kaziranga > Jim Corbett > Orang > Bandipur  
(c) Orang > Jim Corbett > Kaziranga > Bandipur  
(d) Jim Corbett > Orang > Kaziranga > Bandipur

3. Consider the following statements:

1. Pink pages in IUCN Red List include the critically endangered species.
2. Green pages in IUCN Red List include protected and conserved areas.

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

4. Consider the following statements:

1. Peat bogs are an important means of climatic dating.
2. Analysis of pollen grains in peat bogs and other deposits shows the geographical extent of plant species in the past.

Which of the above statement/ statements is/are true?

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

5. Consider the following statements:

1. African Cheetah is endangered in IUCN Red List.

2. Asiatic Cheetah is critically endangered in IUCN Red List. M

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

6. Which of the following are incorrect?

1. Mangroves are salt tolerant forest ecosystems found mainly in the tropical and subtropical regions of the world.
2. Mangrove plants can survive high salinity, tidal extremes, strong wind velocity, high temperature and Muddy aerobic soil.

Select the correct answer using the code given below.

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

7. Which of the following deal/s with controlling Ozone hole?

1. Vienna convention
2. Paris Climate deal
3. Montreal protocol

Select the correct answer using the codes given below:

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

8. Which of the following about Ecological Niche is/are correct?

1. No two species in a habitat can have same niche.
2. A niche is unique for a species.

Select the correct answer using the codes given below:

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

9. With reference to the IUCN and the CITES,

which of the following statements is/are correct?

1. IUCN is an organ of the United Nations and CITES is an international agreement between governments.
2. CITES is legally binding on the States that have joined it, but this Convention does not take the place of national laws.

Select the correct using the code given below.

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

10. Which of the following are sources of pollutants that adversely affect the ozone layer?

1. Bromine
2. Carbon tetrachloride
3. Hydrofluorocarbons
4. Methyl chloroform
5. Chlorofluorocarbons

- (a) 1, 2 and 5 only              (b) 1, 2, 3 and 5 only  
(c) 1, 2, 4 and 5 only        (d) All of the above

11. Which of the following is/ are correct about the dwarf planets?

1. A dwarf planet is a planetary-mass object that is neither a planet nor a satellite.
2. A dwarf planet is a celestial body in direct orbit of the Sun that is massive enough for its shape to be controlled by gravitation, but that unlike a planet has not cleared its orbital region of other objects.
3. Dwarf planets are any astronomical objects orbiting the Sun that did not show the disk of a planet and were not observed to have the characteristics of an active comet.
4. Dwarf planets are formed out of cosmic dust grains that collide and stick to form larger and larger bodies.

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

12. Consider the following statements

1. Mars-500 is a psychosocial experiment conducted by USA, Europe and India.
2. The idea is to exactly mimic the time scale of a Mars mission.

Which of the above statements is/are true?

- (a) 1 only                      (b) 2 only  
(c) Both 1 and 2              (d) None of these

13. Recently, India successfully test-fired 'Nirbhay'.

Consider the following statements in the above context:

1. Nirbhay is the country's second supersonic cruise missile, the first being Brahmos.
2. It is a 3-stage surface-to-air missile and is inspired by the technology of 'Lakshya- aircraft'.
3. It is also called 'treetop missile' as its shape is similar to the stem of a tree.
4. The missile has a good loitering capability.
5. The missile is designed by the Aeronautical Development Establishment (ADE) of DRDO.

Which of the statements given above is/are correct?

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

14. Consider the following statements

1. Hayabusa an unmanned spacecraft developed by the Japan Aerospace Exploration Agency (JAXA).
2. It landed on the Itokawa asteroid and collected samples in the form of tiny grains of asteroidal material.

Which of the above statements is/are true?

- (a) 1 only                      (b) 2 only  
(c) Both 1 and 2              (d) None of these

15. Where do most of the known asteroids orbit the Sun?

- (a) Between the orbits of Mars and Jupiter  
(b) Between the orbits of Venus and Earth  
(c) Between the orbits of Earth and Mars

(d) Between the orbits of Pluto and Saturn

16. Consider the following statements regarding 'Carbon Aerogel'

1. Zhejiang University of China, the team of scientists, produced an ultra-light substance known as 'Carbon Aerogel.'
2. The Carbon Aerogel has the density of 0.16 milligrams per cubic centimetres.
3. The Carbon Aerogel is made of graphite as well as the carbon Nanotubes which can absorb around 900 times its own body weight.

Which of the above statement(s) is/are correct?

- (a) 1 only                      (b) 2 only  
(c) 3 only                      (d) All of these

17. Consider the following statements

1. SARAL is a joint project of India and France.
2. SARAL and six other satellites launched through PSLV-C20.
3. SARAL will be used to study the ocean currents and sea surface heights.

Which of the statements given above is/are correct?

- (a) 1 only                      (b) 2 only  
(c) 1 and 2 only              (d) All of these

18. Select the correct statements given below about the components of the Robots.

- (a) In robot, the lead acid battery is used to get power supply.  
(b) The actuators of a robot act like the muscles of human beings.  
(c) The end effectors of the robot act as hands of robot to manipulate the objects.  
(d) All the statements given in 'a', 'b' and 'c' are correct about the components of the Robots.

19. Neutrinos are

1. tiny particles that carry no charge.
2. interact very strongly with electrons and protons.
3. high in energy.

4. may be produced by the giant black hole at the centre of the Milkyway.

- (a) 1, 2, 3            (b) 2, 3, 4  
(c) 1, 3, 4            (d) All of the above

20. Agni-1, was test-fired for its 700 km strike range from the wheeler island off the Odisha coast on Sept. 11, 2014.

1. It is a surface to air missile.
2. It is nuclear weapons capable ballistic missile.
3. It carried 1100 kg payload and zeroed in on the target with a high degree of accuracy. Which of the above are correct.

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

21. With reference to scheduled tribal areas, consider the following statements:

1. Article 244(A) allows for creation of an 'autonomous state' within the state Assam only.
2. Tribal habitations in the states of Kerala and Tamil Nadu are under the Fifth schedule of the constitution.

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

22. With reference to Lingayats, consider the following statements:

1. The sect was founded by social reformer and philosopher Basavanna in vedic period.
2. The Lingayats are strict monotheists and worship only Vishnu.

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

23. Central Pollution Control Board is a statutory organisation which was constituted under the

- (a) Water (Prevention and Control of Pollution) Act, 1974.  
(b) Air (Prevention and Control of Pollution) Act, 1981.

(c) Environment (Protection) Act, 1986.

(d) National Environment Tribunal Act, 1995.

24. With reference to the Access to Covid-19 Tools Accelerator (ACT-Accelerator), consider the following statements:

1. It is a global collaboration launched by the G20 countries.

2. It aims to end the Covid-19 pandemic and restore full societal and economic activity globally.

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. With reference to a 'star campaigner', consider the following statements:

1. Expenditure incurred on electioneering by a star campaigner is borne by the concerned political party and not by an individual candidate.

2. When the Prime Minister is a Star Campaigner the expenditure incurred on security is borne by the government.

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

### **ANSWER SHEET**

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