

1. With reference to the food chains in ecosystems, which of the following kinds of organism is/are known as decomposer organism/organisms? (2013)
 1. Virus
 2. Fungi
 3. Bacteria

Select the correct answer using the codes given below:

- a) 1 only
 - b) 2 and 3 only**
 - c) 1 and 3 only
 - d) 1, 2 and 3
2. Fruits stored in a cold chamber exhibit longer storage life because (2013)
 - a) exposure to sunlight is prevented
 - b) concentration of carbon dioxide in the environment is increased
 - c) rate of respiration is decreased**
 - d) there is an increase in humidity
 3. Consider the following fauna and India: (2013)
 1. Gharial
 2. Leatherback turtle
 3. Swamp deer

Which of the above is/are endangered?

- a) 1 and 2 only
 - b) 3 only
 - c) 1, 2 and 3**
 - d) None
4. Ball bearings are used in bicycles, cars, etc., because (2013)
 - a) the actual area of contact between the wheel and axle is increased
 - b) the effective area of contact between the wheel and axle is increased
 - c) the effective area of contact between the wheel and axle is reduced**
 - d) None of the above statements is correct

5. Rainbow is produced when sunlight falls on drops of rain. Which of the following physical phenomena are responsible for this? (2013)
 1. Dispersion
 2. Refraction
 3. Internal reflection

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**
6. The known forces of nature can be divided into four classes, viz., gravity, electromagnetism, weak nuclear force and strong nuclear force. With reference to them, which one of the following statements is not correct? (2013)
 - a) Gravity is the strongest of the four**
 - b) Electromagnetism acts only on particles with an electric charge
 - c) Weak nuclear force causes radioactivity
 - d) Strong nuclear force holds protons and neutrons inside the nucleus of an atom
 7. Which one of the following is the correct sequence of ecosystems in the order of decreasing productivity? (2013)
 - a) Oceans, lakes, grasslands, mangroves
 - b) Mangroves, oceans, grasslands, lakes
 - c) Mangroves, grasslands, lakes, oceans**
 - d) Oceans, mangroves, lakes, grasslands
 8. Consider the following: (2013)
 1. Star tortoise
 2. Monitor lizard
 3. Pygmy hog
 4. Spider monkey

Which of the above are naturally found in India?

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

9. Consider the following animals: (2013)

- 1. Sea cow
- 2. Sea horse
- 3. Sea lion

Which of the above is/are mammal/mammals?

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

10. On the planet earth, most of the freshwater exists as ice caps and glaciers. Out of the remaining freshwater, the largest proportion (2013)

- a) is bound in atmosphere as moisture and clouds
- b) is found in freshwater lakes and rivers
- c) **exists as groundwater**
- d) exists as soil moisture

11. Lichens, which are capable of initiating ecological succession even on a bare rock, are actually a symbiotic association of (2014)

- a) algae and bacteria
- b) **algae and fungi**
- c) bacteria and fungi
- d) fungi and mosses

12. Which of the following are some important pollutants released by steel industry in India? (2014)

- 1. Oxides of sulphur
- 2. Oxide of nitrogen
- 3. Carbon monoxide
- 4. Carbon dioxide

Select the correct answer using the code given below.

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

13. With reference to Agni-IV Missile, which of the following statements is/are correct? (2014)

- 1. It is surface-to surface missile.
- 2. It is fuelled by liquid propellant only.
- 3. It can deliver one-tonne nuclear warheads about 7500km away.

Select the correct answer using the code given below.

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

14. Consider the following pairs: (2014)

Vitamin Deficiency disease

- 1. Vitamin C : Scurvy
- 2. Vitamin D : Rickets
- 3. Vitamin E : Night blindness

Which of the pairs given above is/are correctly matched?

- a) **1 and 2 only**
- b) 3 only
- c) 1, 2 and 3
- d) None

15. Which one of the following is the process involved in photosynthesis? (2014)

- a) Potential energy is released to form free energy.

- b) **Free energy is converted into potential energy and stored.**
 c) Food is oxidized to release carbon dioxide and water.
 d) Oxygen is taken, and carbon dioxide and water vapour are given out.
16. In the cities of our country, which among the following atmospheric gases are normally considered in calculating the value of Air Quality Index? (2016)
1. Carbon dioxide
 2. Carbon monoxide
 3. Nitrogen dioxide
 4. Sulfur dioxide
 5. Methane
- Select the correct answer using the code given below.
- a) 1, 2 and 3 only
 b) **2, 3 and 4 only**
 c) 1, 4 and 5 only
 d) 1, 2, 3, 4 and 5
17. With reference to 'Astrosat', the astronomical observatory launched by India, which of the following statements is/are correct? (2016)
1. Other than USA and Russia, India is the only country to have launched a similar observatory into space.
 2. Astrosat is a 2000 kg satellite placed in an orbit at 1650 km above the surface of the Earth.
- 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**
18. Consider the following statements: (2016)
1. The Sustainable Development Goals were first proposed in 1972 by a global think tank called the 'Club of Rome'.
 2. The Sustainable Development Goals have to be achieved by 2030.
- 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
19. With reference to 'LiFi', recently in the news, which of the following statements is/are correct? (2016)
1. It uses light as the medium for high-speed data transmission.
 2. It is a wireless technology and is several times faster than 'WiFi'.
- 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
20. The term 'Intended Nationally Determined Contributions' is sometimes seen in the news in the context of (2016)
- a) pledges made by the European countries to rehabilitate refugees from the war-affected Middle East
 - b) **plan of action outlined by the countries of the world to combat climate change**
 - c) capital contributed by the member countries in the establishment of Asian Infrastructure Investment Bank
 - d) plan of action outlined by the countries of the world regarding Sustainable Development Goals
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