

- 1. Consider the following statements:
 - 1. Primary productivity is constant across different types of ecosystems.
 - Secondary productivity is defined as the rate of formation of new organic matter by consumers. 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
- 2. Consider the following statements:
 - 1. Primary Carnivores are also the primary consumers.
 - 2. Death of organism is the beginning of the detritus food chain/web.

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
- 3. Consider the following statements:
 - 1. Each trophic level has a certain mass of living material at a particular time called as the standing
 - 2. The biomass of a species is expressed only in terms of dry weight.

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:

 - 2. A given species may occupy more than one trophic level in the same ecosystem at the same time.

 Which of the statements given above is/are NOT CORRECTS clusive Coaching for 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
- 5. Consider the following statements:
 - 1. Atmospheric inputs of carbon through rainfall are much smaller than phosphorus inputs.
 - 2. Gaseous exchanges of phosphorus between organism and environment are negligible.

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 best defines the permaculture?
 - a) Permaculture is a system of agriculture and aquaculture within the ecological carrying capacity of the region.
 - b) Permaculture is a system of agricultural and social design principles centered on simulating or directly utilizing the patterns and features observed in natural ecosystems.
 - c) Permaculture is a system of agriculture and agro based industry developing side by side.
 - d) None of the above
- Which of the following statements correctly explains the 10 per cent law in context of ecology?
 - a) Only 10 per cent of the energy is transferred to each trophic level from the lower trophic level.
 - b) Biomass in one tropic level is only 10% of the lower trophic level.
 - c) With 10 per cent increase in sunlight the vegetation growth in an ecosystem gets doubled.
 - d) With increase in global warming the temperature will increase by 10 per cent.
- 8. Which of the following statements regarding Ecological succession is/are correct?
 - 1. Hydrarch succession takes place in wetter areas and the successional series progress from hydric to the mesic conditions.

- 2. Xerarch succession takes place in dry areas and the series progress from xeric to mesic conditions. 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
- 9. "The entire complement of species of organisms, plants and animals found within a given region". Select the correct term related to the phrase:
 - a) Community
 - b) Biotype
 - c) Biota
 - d) Biome
- 10. Consider the following statements with regard to the general characteristics for Lake Ecology:
 - 1. The nutrient content is very low in Oligotrophic whereas nutrient content is very high in Eutrophic
 - 2. Oxygen in the hypolimnion is present in Eutrophic whereas is absent in Oligotrophic.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 11. 'Operation Warp Speed' is associated with which of the following?
 - a) ASEAN
 - b) European Union
 - c) USA
 - d) BRICS
- 12. Consider the following statements with respect to 'Xenobots'.
 - 1. It is both a living thing made of living cells and a machine that the researchers can program to express certain behaviors.
 - 2. It is named after the species of aquatic frog found across sub-Saharan Africa from Nigeria and Exclusive Coaching Sudan to South Africa.

Select the correct statements

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2
- 13. Which of the following pairs are correctly matched?

Organization – Countries

- 1. National Rally Iraq
- 2. AfD France
- 3. Antifa USA

Select the correct code:

- a) 1 and 2
- b) 2 and 3
- c) 3 Only
- d) 1, 2 and 3
- 14. Which of the following statements is correct with respect to 'Crew Dragon'?
 - a) It is a spaceship built by SpaceX.
 - b) It is a submarine indigenously built by India.
 - c) It is a UAV developed by China.
 - d) It is a supersonic missile developed by Russia.
- 15. Consider the following statements with respect to 'Great White Sharks'.
 - 1. It is listed as 'Critically Endangered' under the IUCN Red List.
 - 2. Young white sharks take birth in designated 'nurseries', where they are protected from other predators until they grow into adults.

Select the correct statements

- a) 1 only
- b) 2 only

- c) Both 1 and 2
- d) Neither 1 nor 2
- 16. With reference to trans fatty acids (TFA), consider the following statements:
 - 1. The natural TFAs are present in meats and dairy products.
 - 2. They have adverse effects on a human body.

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:
 - 1. Nendran Bananas are cultivated in Thrissur district of Kerala.
 - 2. The Nendran Bananas got their Geographical Indication (GI) Tag in 2014.
 - 3. IIT-Madras has developed a new product called Banana Grit from the raw Nendran Bananas.

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

- a) 1 and 2 only
- b) 2 only
- c) 3 only
- d) 2 and 3 only
- 18. Which of the following international treaties and conventions are signed by India to combat drug
 - 1. United Nations (UN) Convention on Narcotic Drugs (1961)
 - 2. UN Convention on Psychotropic Substances (1971)
 - 3. UN Convention against Transnational Organized Crime (UNTOC) 2000 Select the correct answer using the code given below:
 - a) 1 and 2 only
 - b) 2 and 3 only
 - c) 1 only
 - d) 1, 2 and 3
- 19. With reference to RailTel, consider the following statements:
 - 1. RailTel is a Maharatna Central Public Sector Enterprise.
 - 2. It has been selected for implementation of Bharat Net project.

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. With reference to Lightning, consider the following statements:
 - 1. Collisions between smaller ice crystals and larger ones in the clouds generates the electric sparks.
 - 2. The difference in electrical charge between the top and bottom of a cloud, results in lighting.
 - 3. The Earth is a good conductor of electricity

Which of the statements given above are correct?

- a) 1 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3
- 21. Consider the following statements:
 - 1. La Nina typically has a cooling effect on global temperatures.
 - 2. El Nino and the Southern Oscillation (ENSO) cycle is a periodic fluctuation in sea surface temperatures and pressure across the Atlantic Ocean.

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 the Prevention of Cruelty to Animals Act, 1960, consider the following statements:

for UPSC/OPSC



- 1. The Animal Welfare Board of India was set up in 1962 under the Prevention of Cruelty to Animals Act.
- 2. The Act provides guidelines relating to experimentation on animals for scientific purposes. 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. Consider the following statements regarding 'Indian Pangolin'
 - 1. It is protected under the Schedule I of Wildlife Protection Act, 1972.
 - 2. The species is found at an elevation above 2500 m in the Eastern Himalayas.

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 COVAXIN vaccines, consider the following statements:
 - 1. It is an inactivated vaccine that destroys the ability of the pathogen to replicate.
 - 2. It aims to develop an immune response to the nucleocapsid protein.

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. Strait of Hormuz connects which of the following water bodies?
 - a) Red Sea & Persian Gulf
 - b) Persian Gulf & Gulf of Oman
 - c) Red Sea & Gulf of Aden
 - d) Persian Gulf & Gulf of Aden

