

1. Consider the following statements:
  1. The sudden and unpredictable 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 seral communities.

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. Before a biotic community of diverse organisms can become established, there must be soil.
  2. Primary succession begins in areas where natural biotic communities have been destroyed.

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. The species that invade a bare area are called pioneer species.
  2. The climax community remains stable as long as the environment remains unchanged.

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. Nitrifying bacteria change the ammonia in the soil to nitrates and then into nitrites.
  2. Nitrogen oxides dissolve in rain forming nitrates.

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. Oceans stores significantly higher amounts of Carbon as compared to atmosphere.
  2. Decomposers also contribute substantially to CO<sub>2</sub> pool by their processing of waste materials.

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. Consider the following statements:
  1. The flow of energy from producer to top consumers is called energy flow which is bidirectional.
  2. The pyramid of energy is always upward, with a large energy base at the bottom.
  3. Biomass pyramid concept helps to explain the phenomenon of biological magnification.

Which of the above statements is/are correct?

  - a) 2 only**
  - b) 1 and 2 only
  - c) 1 and 3 only
  - d) 3 only
7. Biomagnification refers to the tendency of pollutants to concentrate as they move from one trophic level to the next. Consider the following statements.
  1. In biomagnification there is an increase in concentration of a pollutant from one link in a food chain to another.
  2. In order for biomagnification to occur, the pollutant must be long-lived, mobile, soluble in water and biologically inactive.

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. With reference to food chains in ecosystems, consider the following statements:

- 1. A food chain illustrates the order in which a chain of organisms feed upon each other.
- 2. A food chain illustrates the numbers of each organism which are eaten by others.

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 statements given below is/are correct regarding phosphorus cycle?

- 1. Rocks are the major reservoir of phosphorus which contains phosphorus in the form of phosphates.
- 2. Animals obtain phosphorus indirectly through plants.
- 3. There is no respiratory release of phosphorus in atmosphere.

Select the correct answer from the code given below:

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

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

11. With reference to the G7 (Group of 7), consider the following statements:

- 1. It consists of Canada, France, Germany, Russia, Japan, the United Kingdom, and the United States.
- 2. It is headquartered at Washington, D.C. (USA).
- 3. The annual summits are presided over by leaders of member countries on a rotational basis and the decisions taken by leaders during annual summits are non-binding.

Which of the statements given above is/are correct?

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

12. Consider the following statements with reference to Universal Basic Income (UBI):

- 1. Under UBI cash is directly provided to the citizens.
- 2. The purpose of the UBI is to reduce poverty and increase equality among citizens.
- 3. The Economic Survey of India 2016-17 advocated for Universal Basic Income (UBI).

Which of the statements given above is/are correct?

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

13. With reference to the Terminal High Altitude Area Defense, consider the following statements:

- 1. It can intercept and destroy short and medium-range ballistic missiles in their final flight phase.
- 2. It is transportable and can also be used as a form of attack against an enemy.

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

14. Consider the following statement about the spacecraft Crew Dragon:

- 1. It is part of the Demo-2 Mission of NASA and SpaceX.
- 2. Recently, SpaceX became the first private company to launch people into orbit.

Which of the above-mentioned statements is/are correct?

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

15. Consider the following statements regarding the Constituent Assembly of India.
- Roughly 1 seat was allotted to 1 million population.
  - Representatives of princely states were nominated by landlords within the respective princely states.
  - The election was done by the method of proportional representation by means of single transferable vote.
- Which of the statements given above is/are correct?
- (a) I and II      (b) II and III      (c) III only      **(d) I, II and III**
16. Which one of the following is the correct sequence in the descending order of the **precedence** in the warrant of precedence?
- Attorney General of India – Judges of the Supreme Court – Members of Parliament – Deputy Chairman of Rajya Sabha
  - Judges of the Supreme Court – Deputy Chairman of Rajya Sabha – Attorney General of India – Members of Parliament**
  - Attorney General of India – Deputy Chairman of Rajya Sabha – Judges of the Supreme Court – Members of Parliament
  - Judges of the Supreme Court – Attorney General of India – Deputy Chairman of Rajya Sabha – Members of Parliament
17. Consider the following points about Government Act 1935.
- Divide the powers in terms of Federal, Provincial and Concurrent list.
  - Introduced bicameralism in 7 out of 11 provinces.
  - It provided the establishment of Reserve Bank of India.
  - Provided establishment of Joint Public Service Commission
- I, II and III only
  - I, II and IV only
  - I, III and IV only**
  - I, II, III and IV
18. Consider the following statements about the Attorney General of India.
- He is appointed by the President of India.
  - He must have the same qualifications as are required for a Judge of the Supreme Court.
  - He must be a member of either House of Parliament.
  - He can be removed by impeachment by Parliament.
- Which of these statements are correct?
- I and II**
  - I and III
  - II, III and IV
  - III and IV
19. Consider the following statements.
- The Thirty-First Amendment Act increased the number of Lok Sabha seats from 525 to 545.
  - The Forty-first amendment raised the retirement age of State Public Service Commissions and Joint Public Service Commissions from sixty to sixty-two years.
- Which of the statements given above is/are correct?
- Only I
  - Only II
  - Both I and II**
  - Neither I nor II
20. Consider the following statements.
- The Ninth Schedule was added to the Constitution of India by the First Amendment Act, 1953.
  - As per the Supreme Court's ruling the laws included in this schedule after August 15, 1974 are now open to judicial review.
- Which of the statements given above is/are correct?
- Only I**
  - Only II
  - Both I and II
  - Neither I nor II
21. Consider the following statements regarding Biofuels:
- The energy content of bioethanol is the highest among other gasoline alternatives.

2. Bioethanol, biobutanol and biohydrogen are produced through the fermentation process.
3. The E20 Fuel is a blend of 20% of ethanol with gasoline.

Which of the statements given above is/are correct?

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

22. With reference to Geosynchronous Transfer Orbit (GTO), consider the following statements:

1. A Geosynchronous Transfer Orbit is a circular orbit like a geo-stationary earth orbit.
2. A spacecraft is first launched into GTO before attaining geosynchronous earth orbits.

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 statement with reference to the Cryptocurrency?

1. It is a decentralised virtual currency protected by cryptographic encryption techniques.
2. It is a government-issued currency that is not backed by any commodity.
3. Trading of virtual currencies (VC) is banned in India.

Which of the statements given above is/are correct?

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

24. With reference to Article 356 of the Constitution of India, consider the following statements:

1. The President's rule is imposed by the President on the advice of the Union Council of Ministers only.
2. A proclamation imposing President's Rule must be approved by both the Houses of Parliament within six months from the date of its issue.

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 Minorities in India, consider the following statements:

1. Religious and linguistic minorities are recognised under the constitution of India.
2. The National Commission for Minorities is a statutory body.
3. Muslim, Christians, Sikhs, Buddhist, Parsis and Jain are indentified as religious minorities under the Indian constitution.

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