

20. Consider the following statements:

1. An organism with a narrow tolerance range is said to be “eury” whereas, that with a wide tolerance range is said to be “steno”.
2. The tolerance ranges against all the abiotic factors comprise the organism’s niche.
3. An overwhelming majority of animals and nearly all plants cannot respond to the intolerant factors by homeostasis.

Which of the above statements are correct?

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

21. Consider the following statements regarding Biomagnifications:

1. It is the process of a build up of certain chemical substances or toxins at the higher trophic levels of a food chain.
2. In order for biomagnifications to occur, the pollutants must be short-lived.

Which of the above statements is/are **incorrect**?

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

22. Assertion A: Energy flows in an environment linearly.

Reason R: Because energy flows from one trophic level to the next higher one and during the process, some energy is always lost

- (a) A and B both are correct and B is the reason of A.
- (b) A and B is correct and B is the reason of A.
- (c) A is correct and B is wrong.
- (d) A is wrong but B is correct.

23. In some villages a virus was accidentally released killing approximately 90% of tigers. What would be the immediate response in the food chain below?

Grasses-Deers-Tigers

- (a) The number of grasses increased.
- (b) The number of tigers increased.
- (c) The number of grasses decreased and number of Deers increased.
- (d) The number of grasses increased and number of Tigers increased.

24. A phenomenon where the top consumer/predator controls the primary consumer population is called?

- (a) Predation cycles
- (b) Parasitism
- (c) Interspecific competition
- (d) Trophic cascades

25. Consider the following statements regarding organic farming:

1. India ranks first in number of organic farmers and ninth in terms of area under organic farming.
2. Major organic exports from India are flax seeds, sesame, soybean, tea, medicinal plants, rice and pulses.

Which of the above statements is/are correct?

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

26. Consider the following statements:

1. Photosynthesis
2. Respiration
3. Decay of organic matter
4. Volcanic action

Which of the above add carbon dioxide to the carbon cycle on Earth?

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

27. Nitrogen deficiency can be prevented by using organic methods which requires time, but it result in a more even distribution of the added nitrogen over time. Which of the following organic methods are used for adding nitrogen to the soil: