

1- With reference to an initiative called 'the economics of ecosystems and biodiversity (TEEB)' which of the following statements is/are correct?

1. It is an initiative hosted by UNEP IMF and world economic forum
2. It is a global initiative that focuses on drawing attention to the economic benefits of biodiversity
3. It presents an approach that can help decision-makers recognize demonstrate and capture the value of ecosystem and biodiversity

Select the correct and Answer using the code given below

(a) 1 and 2 only

(b) 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

2- Consider the following agricultural practices :

1. Contour bunding
2. Relay cropping
3. Zero tillage

In the context of global climate change, which of the above helps/help in carbon sequestration/storage in the soil?

(a) 1 and 2 only

(b) 3 only

(c) 1, 2 and 3

(d) None of them

3- What would happen if phytoplankton of an ocean is completely destroyed for some reason?

1. The ocean as a carbon sink would be adversely affected.
2. The food chains in the ocean would be adversely affected.
3. The density of ocean water would drastically decrease. Select the correct answer using the codes given below :

(a) 1 and 2 only

(b) 2 only

(c) 3 only

(d) 1, 2 and 3

4- Vultures which used to be very common in Indian countryside some years ago are rarely seen nowadays. This is attributed to

(a) the destruction of their nesting sites by new invasive species

(b) a drug used by cattle owners for treating their diseased cattle

(c) scarcity of food available to them

(d) a widespread, persistent and fatal disease among them

5- Consider the following pairs:

1. Nokrek Bio-sphere Reserve : Garo Hills

2. Logtak (Loktak) Lake : Barail Range

3. Namdapha National Park : Dafla Hills

Which of the above pairs is/are correctly matched?

(a) 1 only

(b) 2 and 3 only

(c) 1, 2 and 3

(d) None

6- In the grasslands, trees do not replace the grasses as a part of an ecological succession because of:

(a) insects and fungi

(b) limited sunlight and paucity of nutrients

(c) water limits and fire

(d) None of the above

7- Which one of the following is the correct sequence of ecosystems in the order of decreasing productivity?

(a) Oceans, lakes, grasslands, mangroves

(b) Mangroves, oceans, grasslands, lakes

(c) Mangroves, grasslands, lakes, oceans

(d) Oceans, mangroves, lakes, grasslands

8- Consider the following fauna of India:

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

9- Consider the following:

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

10- Due to improper/ indiscriminate disposal of old and used computers or their parts, which of the following are released into the environment as e-waste?

1. Beryllium
2. Cadmium
3. Chromium
4. Heptachlor
5. Mercury
6. Lead
7. Plutonium

Select the correct answer using the codes given below.

(a) 1, 3, 4, 6 and 7 only

(b) 1, 2, 3, 5 and 6 only

(c) 2, 4, 5 and 7 only

(d) 1, 2, 3, 4, 5, 6 and 7

11- Which of the following is/are correct about foods having High Fat Salt and Sugar (HFSS)?

1.They contain high amounts of proteins, vitamins, phyto-chemicals, minerals and dietary fibre but have low amount of fat, salt and sugar.

2.Noodles, burgers, patties, pastries, popcorn, potato chips, carbonated drinks, biscuits, muffins, chocolates etc. can be said to be foods having High Fat Salt and Sugar (HFSS)

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

12- The hormone Erythropoietin is secreted by which of the following organ/ gland?

(a) Kidney

(b) Thyroid

(c) Liver

(d) Pituitary gland

13- Which among the following are the indigenously developed anti-tank missiles guided missiles in India?

1.AMOGHA Missile

2.NAG

3.HELINA

Select the correct answer using the code given below:

(a) 1 and 2 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

14- Which of the following statements are correct about CAS 9?

- 1.It is an enzyme which acts like a molecular scissors
- 2.It is derived from viruses.

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

15- Which of the following is/are correct about National Electronic Toll Collection System?

- 1.It provides an interoperable secure framework
- 2.It has been developed by National Payments Corporation of India.
- 3.It enhances audit control by centralising user account.

Select the correct answer using the code given below:

(a)2 only

(b)1 and 3 only

(c)1 and 2 only

(d)1, 2 and 3

16- Gossypol which is news recently is related to which of the following?

- 1.It is a substance which is produced in the cotton seed
- 2.Gossypol is included in the cotton seed through genetic modification to improve plants ability to withstand diseases.

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- Recently FSSAI has been taking steps restricting the use of Reused Cooking Oil. In this context which of the following is/are correct about reused cooking oil?

- 1.The quality of cooking oil is measured on the basis of presence of Polar compounds.
- 2.Cooking Oil is identified as an alternative source for biodiesel by National Biofuel Policy 2018.
- 3.Repeated frying of cooking oil produces free radicals that are harmful when consumed.

Select the correct answer using the code given below

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

(d)1, 2 and 3

18-Consider the following statements about Nuclear Power Corporation of India Limited.

- 1.It is a public sector enterprises and functions under Department of Atomic Energy.
- 2.It is responsible for design, construction and operation of nuclear power reactors in India.
- 3.Nuclear Reactor under construction in Gorakhpur is a Pressurised Heavy Water Reactor.

Which of the statements given above is/are correct?

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

(d)1, 2 and 3

19- With reference to Cholera, consider the following statements:

- 1.It is a viral infection.
- 2.It occurs in both epidemic and pandemic patterns

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-Dtrack and Ghostcat recently in news are related to which of the following?

(a)Cyber attacks

- (b) Cryptocurrency
- (c) Exoplanets
- (d) None of the above

21. With reference to the Desalination process, consider the following statements:

1. The salt removed from the water can change the salinity and lower the amount of oxygen in the water.
2. The discharge from the desalination process can be used for aquaculture to increase fish biomass.

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 BrahMos Missile, consider the following statements:

1. The name of the missile is based on the amalgamation of the Brahma and Moskva names of Gods revered in two countries.
2. It is a long-range supersonic cruise missile which can be launched from submarines, ships, aircraft or land.

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. Which of the following statements is/are correct about the Indian Regional Navigation Satellite System (IRNSS):

1. It is an independent regional navigation satellite system developed by the Indian Space Research Organization (ISRO).
2. The IRNSS constellation NavIC has better position accuracy as compared to the GPS.
3. The IRNSS is a recognised component of the World Wide Radio Navigation System (WWRNS).

Select the correct answer using the code given below:

(a) 1 and 2 only

(b) 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

24. With reference to Chang'e-5 mission, consider the following statements:

1. It seeks to collect lunar material and bring back to Earth.

2. It is China's first mission to the Moon.

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. Consider the following statements:

1. National Nutrition Mission envisages to improve nutritional outcomes for children, pregnant women and lactating mothers.

2. National Nutrition Strategy aims to attain malnutritionfree India by 2022.

Which of the above statements is/are correct?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2