

1. Within biological communities, some species are important in determining the ability of a large number of other species to persist in the community. Such species are called

- (a) Keystone species
- (b) Allopatric species
- (c) Sympatric species
- (d) Threatened species

2. Consider the following statements :

- 1. The boundaries of a National Park are defined by legislation.
- 2. A Biosphere Reserve is declared to conserve a few specific species of flora and fauna.
- 3. In a Wildlife Sanctuary, limited biotic interference is permitted.

Which of the statements given above is / correct ?

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

3. The “Red Data Books” published by the International Union for Conservation of Nature and Natural resources (IUCN) contain lists of ?

- 1. Endemic plant and animal species present in the biodiversity hotspots.
- 2. Threatened plant and animal species.
- 3. Protected sites for conservation of nature and natural resources in various countries.

Select the correct answer using the codes given below:

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

4. Consider the following protected areas:

1. Bandipur
2. Bhitarkanika
3. Manas
4. Sunderbans

Which of the above are declared Tiger Reserves?

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

5. 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. Food chains are found within the populations of a species.
3. 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) 1 and 2 only
- (c) 1, 2 and 3
- (d) None of the above

6. Consider the following international agreements:

1. The International Treaty on Plant Genetic Resources for Food and Agriculture
2. The United Nations Convention to Combat Desertification
3. The World Heritage Convention

Which of the above has/have a bearing on the biodiversity?

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

7. If you walk through countryside, you are likely to see some birds stalking alongside the cattle to seize the insects disturbed by their movement through grasses.

Which of the following is/are such bird/birds?

1. Painted Stork
2. Common Myna
3. Black-necked Crane

Select the correct answer using the code given below.

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

8. In India, cluster bean (Guar) is traditionally used as a vegetable or animal feed, but recently the cultivation of this has assumed significance.

Which one of the following statements is correct in this context?

- (a) The oil extracted from seeds is used in the manufacture of biodegradable plastics
- (b) The gum made from its seeds is used in the extraction of shale gas
- (c) The leaf extract of this plant has the properties of antihistamines
- (d) It is a source of high quality biodiesel

9. With reference to 'dugong', a mammal found in India, which of the following statements is/are correct?

1. It is a herbivorous marine animal.
2. It is found along the entire coast of India.
3. It is given legal protection under Schedule I of the Wildlife (Protection) Act, 1972.

Select the correct answer using the code given below.

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

(d) 3 only

10. With reference to 'Agenda 21', sometimes seen in the news, consider the following statements :

1. It is a global action plan for sustainable development

2. It originated in the World Summit on Sustainable Development held in Johannesburg in 2002.

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

11. Consider the following statements about Real-time Train Information system:

1. It has been developed by Centre for Railway Information System (CRIS) in collaboration with Defence Research Development Organisation (DRDO)

2. The application software in loco device shall determine train movement events at stations based on pre-defined logic applied on spatial coordinates and speed received continuously from GAGAN receiver.

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

12. Which of the following statement(s) is/are correct about Gaganyaan?

1. The launch vehicle for the mission would be GSLV Mk-II

2. The technologies needed for human spaceflight have not been tested by ISRO so far.

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

13. Which of the following statement about Pyrolysis is/are correct?

1.It is a chemical decomposition of organic materials through application of heat in the presence of oxygen

2.Rate of pyrolysis decreases with increase in temperature.

3.Pyrolysis is an exothermic reaction.

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)None of the Above

14. Pegasus method was in news recently in the context of which of the following?

(a)Cyber spying

(b)Crypto currency

(c)Exoplanets

(d)None of the above

15. Consider the following statements related to Formaldehyde (Formalin):

1.It is used to increase the shelf life of sea food like fish.

2.It is does not occur naturally in preserved fish.

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

16.The drug PRETOMANID, BEDAQUILINE and LINEZOLID can be associated with which of the following disease?

- (a) Tuberculosis
- (b) Viral Infections
- (c) Cancer treatment
- (d) None of the above

17. Bedaquiline drug was recently in the news, in association with:

- (a) MDR Tuberculosis
- (b) Ebola Virus
- (c) Malaria
- (d) Monkey Fever

18. With reference to 3-stage Nuclear Program of India, Consider the following statement:

- 1. Thorium is to be used in the second stage.
- 2. Fast breeder reactors are to be installed in the first stage.

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. Which institution has recently developed world's largest 'Solar tree' in India?

- (a) ISRO
- (b) CSIR
- (c) IIT Bombay
- (d) IISc

20. What is the abbreviation of SSD disease, that was seen in news recently?

- (a) Sandalwood Spike Disease
- (b) Sunflower Spike Disease

(c) Shoe flower Straight Disease

(d) Sweet potato Disease

21. Consider the following statements:

1. The Great Indian Bustard (GIB) is a state bird of Rajasthan.
2. The GIB population is confined only to Rajasthan and Gujarat.
3. The GIB is listed as critically endangered in IUCN Red List.

Which of the statements given above is/are correct?

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

22. Consider the following statements:

1. The lake Baikal is the world's deepest lake situated in Siberia
2. The Baikal-GVD Telescope is one of the three largest neutrino detectors in the world.

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. With reference to the Kalinga Architecture, consider the following statements:

1. The Kalinga style of temples comes under the Nagara style.
2. The hall of the temple is called jagmohan.

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. The 'Nongkhylllem Wildlife Sanctuary' is located in?

(a) Nagaland

(b) Assam

(c) Meghalaya

(d) Tripura

25. Consider the following statements regarding Aditya-L1 Mission:

1. It is India's first scientific expedition to study the Sun.

2. It will be launched using the Polar Satellite Launch Vehicle (PSLV).

3. It will be placed in polar sun synchronous orbit.

Which of the statements given above are correct ?

(a) 2 and 3 only

(b) 1 and 2 only

(c) 1 and 3 only

(d) 1, 2 and 3

ANSWER SHEET

1	A	10	A	19	B
2	C	11	B	20	A
3	B	12	D	21	C
4	B	13	D	22	C
5	A	14	A	23	C
6	D	15	A	24	C
7	B	16	A	25	B
8	B	17	A		
9	C	18	D		