

1. Consider the following statements:
1. Coastal forest is dominated by low trees with thick, leathery leaves that are well adapted to the long summer drought of the Mediterranean climate
 2. Coastal forest is limited to west coasts between 30° and 40° to 45° N and S latitude.
- 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. Steppe is a ground cover of tall grasses along with some broad-leaved herbs.
 2. Steppe grades into semidesert in dry environments and into prairie where rainfall is higher.
- 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. Which of the following are NOT CORRECTLY matched:
- | Wetland | :: | State in which it is located |
|-------------------------|----|------------------------------|
| 1. Hokera Wetland | :: | Punjab |
| 2. Kanjli Lake | :: | Uttarakhand |
| 3. Reunka Wetland | :: | Himachal Pradesh |
| 4. Saman Bird Sanctuary | :: | Rajasthan |
- Select the correct answer using the code given below:
- a) 1 only
 - b) 1, 2 and 4 only**
 - c) 1,2 and 3 only
 - d) 2 only
4. Consider the following statements:
1. A Country can join Ramsar Convention only if it designates one wetland site within its territory for inclusion in the List of Wetlands of International Importance.
 2. International Water Management Institute (IWMI) is one of the International Organization Partner of the Ramsar Convention.
- 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 regarding Coral Polyps:
1. Each individual coral polyp extracts calcium carbonate from the seawater.
 2. Coral polyp hosts symbiotic algae on which it is completely dependent for food.
- 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 statements about ocean acidification is/are NOT CORRECT?
1. Ocean acidification is the ongoing increase in the pH of the Earth's oceans, caused by the uptake of carbon dioxide from the atmosphere.
 2. It increases the concentration of hydrogen ions and decreases the concentration of carbonate ions.
 3. Ocean acidification leads to seawater pH go well below 7.
- Select the correct answer using the code given below:
- a) 1 and 2 only
 - b) 2 only
 - c) 1 and 3 only**
 - d) 3 only

7. Consider the following regarding types of corals:
1. Fringing reefs: reefs that grow close to the shore and extend out into the sea like a submerged platform.
 2. Barrier reef: reefs separated from the land by wide expanses of water and follow the coastline.
 3. Atolls: a roughly circular ring of reefs surrounding a lagoon, a low lying island, common in the Indian and South Pacific oceans.
- Which of the above statements is/are correct?
- a) 1 and 2
 - b) 2 only
 - c) 2 and 3
 - d) 1, 2 and 3**
8. Which of the following conditions is/are required for the Coral Reefs to Survive?
1. Sunlight
 2. Clean water
 3. Cold water temperature (12-15 degree Celsius)
 4. Shallow water
- Select the correct answer using the code given below:
- a) 1 and 2 only
 - b) 2, 3 and 4 only
 - c) 1, 2 and 4 only**
 - d) 1, 2, 3 and 4
9. Which of the following statements is/are correct regarding 'Hope spots'?
1. A hope spot is an area of an ocean that needs special protection because of its wildlife and significant underwater habitats.
 2. India does not have any hope spots.
- 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
10. Consider the following statements regarding Marine Ecosystem:
1. They serve as the sink of a large quantity of runoff and wastes from land.
 2. Salinity impacts the speed of sound more significantly when compared to temperature and pressure.
- 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:
1. Endonucleases remove nucleotides from the ends of the DNA.
 2. Exonucleases make cuts at specific positions within the DNA.
- 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
12. Consider the following statements:
1. A plasmid can be used as vector to deliver an alien piece of DNA into the host organism.
 2. The cutting of DNA at specific locations is not possible.
- 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

13. Consider the following statements regarding introduction of alien DNA into host cells:
1. In a method known as biolistics, recombinant DNA is directly injected into the nucleus of an animal cell.
 2. In another method, suitable for plants, cells are bombarded with high velocity micro particles of gold or tungsten coated with DNA in a method known as gene gun.
- 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
14. Consider the following statements:
1. Asexual reproduction preserves the genetic information, while sexual reproduction permits variation.
 2. Traditional hybridisation procedures used in plant and animal breeding, very often lead to inclusion and multiplication of undesirable genes along with the desired genes.
- 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**
15. Consider the following statements:
1. In a chromosome there is a specific DNA sequence called the origin of replication, which is responsible for initiating replication.
 2. An alien DNA is linked with the origin of replication, so that, this alien piece of DNA can replicate and multiply itself in the host organism.
- 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. In which of the parts of a cell, DNA is found?
- a) Nucleus**
 - b) Endoplasmic reticulum
 - c) Golgi Apparatus
 - d) None of the above
17. Consider the following statements regarding IndiGen initiative:
1. The initiative was undertaken by Indian Council of Medical Research.
 2. Under the initiative the whole genome sequencing of the whole population of Kerala, Bihar was conducted.
- 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**
18. Consider the following statements.
1. Cloning of organisms is not possible through asexual reproduction.
 2. Cloning does not occur naturally.
- Which of the above statements is/are correct?
- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2**
19. Which among the following are examples of biotechnology?
1. Beer brewing
 2. Cloning
 3. Gene Therapy
- 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
20. Which of the following statements are correct about DNA and RNA?
1. All four Bases present in DNA and RNA are same, but their combination is different.
2. Both DNA and RNA are double stranded.
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
21. Consider the following statements:
1. Risa is a handwoven cloth worn by tribals communities of Tripura
2. Garia Puja is celebrated as a harvest festival by the ethnic tribes in Tripura.
Which of the statements given above is/are not correct?
a) 1 only
b) 2 only
c) **Both 1 and 2**
d) Neither 1 no 2
22. Which of the following statements is not correct regarding the President's veto power?
a) The President has the power to either sign off or withhold his consent on a bill under Article 111.
b) The President cannot exercise his suspensive veto in relation to Money Bill.
c) The President cannot exercise any veto power in relation to constitutional amendment bills.
d) The bill is kept pending by the President for an indefinite period by exercising absolute veto.
23. Consider the following statements:
1. In a Limited Liability Partnership (LLP) each partner is responsible or liable for another partner's misconduct or negligence.
2. In a partnership firm every partner is not liable jointly for all acts of the firm done while he is a partner.
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 the Green Bonds, consider the following statements:
1. It is a debt instrument with which capital is being raised to fund green projects.
2. The green bonds have been crucial in increasing financing to sunrise sectors.
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. ShramShakti portal aims to collect data related to tribal migrant workers and link them with the existing welfare schemes.
2. Pradhan Manti Van Dhan Yojana aims to strengthen the Self help groups into Tribal Producer Companies.
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