ISC Class 12 Biology Important Questions

1. Describe the process of DNA replication in prokaryotes.
2. If 10000 K cal energy is available at the level of producers, calculate the amount of energy at the level of secondary consumer.
3. A snapdragon plant with red flowers was crossed with a plant with white flowers. It produced pink progeny in the F1 generation. Explain the principle of inheritance involved with the help of Punnett square.
4. Classify the methods of contraception. Write short notes on *any two* of the methods mentioned by you.
5. Expand the following terms and explain them briefly:
    a. GIFT
    b. ZIFT
    c. RCH
    d. ICSI
    e. IVF
6. Explain the steps involved in *downstream processing,* in biotechnology.
7. How has biotechnology been useful in controlling nematode infection in plants? Explain the technique involved in this process.
8. Draw a labelled diagram of the T.S of anther.
9. Draw a labelled diagram of the LS of anatropous ovule.
10. State the measures to be taken by the owner of a dairy farm to improve the quality of milk and the quantity of its production.
11. Give *six* features of genetic code.
12. Define species-area relationship. What is the significance of the slope of regression? Show with the help of a graph.
13. Differentiate between infectious diseases and non-infectious diseases. Give *two* examples of each.
14. Explain the steps involved in artificial hybridization.
15. What are the main objectives of plant breeding programmes?
16. Mention any two properties of DNA that make it an ideal genetic material.

17. Give *two* differences between Darwinism and the theory of mutation.
18. Mention *any one* symptom of elephantiasis. Name its causative agent.
19. In recent years, there has been large scale loss of biodiversity. Mention *four ways* in which humans are responsible for it.
20. State four measures taken by the government to control high level of air pollution in cities.