057/21

Total Number of Questions : 32

Time : 3.00 Hours

Max. Marks : 200

1. What are biodiversity hot spots ? **(2 Marks)**
2. What are prions ? **(2 Marks)**
3. What is erythroblastosis fetalis ? **(2 Marks)**
4. What are coacervates ? **(2 Marks)**
5. Define a living fossil. **(2 Marks)**
6. Mention the contributions of H. G. Khorana. **(4 Marks)**
7. What are primary chordate characters ? **(4 Marks)**
8. Mention the factors affecting enzyme action. **(4 Marks)**
9. What is hybridoma technology ? **(4 Marks)**
10. Describe the structure of T_4 bacteriophage. **(4 Marks)**
11. Give an account on different types of antigens. **(5 Marks)**
12. Write the consequences of global warming. **(5 Marks)**
13. Why archaeopteryx is a connecting link ? **(5 Marks)**
14. Comment on neurotransmitters. **(5 Marks)**
15. Compare spermatogenesis and oogenesis. **(5 Marks)**
16. Comment on Ras Mol. **(5 Marks)**
17. Explain polytene chromosome. **(5 Marks)**
18. Comment on the importance of coral reefs to marine ecosystem. **(7 Marks)**
19. Explain the principle of ELISA and its various forms. **(7 Marks)**
20. Explain cell cycle. **(7 Marks)**
21. Differentiate between striated and cardiac muscle. **(7 Marks)**
22. Enumerate the characteristics of genetic code. **(7 Marks)**
23. Comment on replication of viruses. **(10 Marks)**
24. Explain major respiratory disturbances and diseases. **(10 Marks)**
25. Comment on renewable resources of energy. **(10 Marks)**
26. Discuss the barriers controlling animal distribution. **(10 Marks)**
27. Comment on biosphere reserves and how they differ from national parks and sanctuaries ? **(10 Marks)**
28. Explain the life cycle of plasmodium. **(10 Marks)**
29. Differentiate between prokaryotic and eukaryotic ribosomes. **(10 Marks)**
30. Explain different types of asexual reproduction in invertebrates. **(10 Marks)**
31. Explain PCR technique and its application. **(10 Marks)**
32. Comment on plastic waste management. **(10 Marks)**