

1. Discuss the significance of biodiversity in the Amazon Rainforest and identify key threats like deforestation and climate change. What are the implications of these threats for the ecosystem and global climate?
2. Evaluate the importance of biodiversity in coral reef ecosystems and identify major threats such as ocean acidification and overfishing. What are the potential impacts of these threats on marine life and coastal communities?
3. Discuss the significance of biodiversity in Arctic ecosystems and identify key threats like climate change and melting ice. How do these threats affect both wildlife and indigenous communities reliant on these ecosystems?
4. Analyze the role of biodiversity in urban green spaces and its benefits for human well-being. What are the challenges these areas face, such as pollution and habitat loss, and how do they impact urban ecosystems?
5. Explain the various ecological, economic, and cultural values of biodiversity. Why is it essential to preserve biodiversity?
6. Discuss the importance of biodiversity in maintaining ecosystem stability. How does it contribute to resilience against environmental changes?
7. What are the economic benefits of biodiversity? Provide examples of industries that rely on diverse biological resources.
8. Analyze the cultural significance of biodiversity in different communities. How does it impact their identity and traditions?
9. Discuss the concepts of in-situ and ex-situ conservation of biodiversity. Compare their methods, advantages, and challenges, and evaluate how both approaches can be integrated to effectively conserve biodiversity. (13 marks)
10. Explain the concept of endemism. Identify and describe three endemic species of India, their habitats, and the conservation challenges they face.
11. Evaluate the effectiveness of current conservation strategies in India for protecting endangered species. Use specific examples to support your analysis.