

11. Layer of atmosphere in which Ozone layer lies is:
 a. Exosphere
 b. Mesosphere
 c. Troposphere
 d. Stratosphere
12. Montreal protocol to reduce production of chlorofluorocarbons was assigned in:
 a. 1977
 b. 1987
 c. 1992
 d. 1984
13. The gas that is most abundant in the atmosphere is:
 a. Oxygen
 b. Nitrogen
 c. Carbon dioxide
 d. Argon
14. Percentage contribution of methane to the greenhouse effect on Earth is about:
 a. 4-9%
 b. 21-36%
 c. 36-70%
 d. 3-7%
15. Sacred groves are especially useful in:
 a. Year-round flow of water in rivers
 b. Generating environmental awareness
 c. Conserving rare and threatened species
 d. Wetland management
16. Which one of the following is not observed in biodiversity hotspots?
 a. Species richness
 b. Endemism
 c. Accelerated species loss
 d. Lesser inter-specific competition
17. Endemic species are:
 a. rare species
 b. species localized in a specific region
 c. cosmopolitan in distribution
 d. critically endangered species
18. The most potent greenhouse gas among the following is _____?
 a. Carbon dioxide
 b. Methane
 c. Water vapor
 d. Ozone
19. Which of the following Environmentalists first gave the concept of Biodiversity 'hotspots'?
 a. Norman Myers
 b. Gaylord Nelson
 c. Julia "Butterfly" Hill
 d. John Muir
20. Which among the following is the World's largest Wetland System?
 a. Camargue (France)
 b. Okavango (Botswana)
 c. Everglades (USA)
 d. Pantanal (South America)

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(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What is global warming potential? Discuss briefly about the different greenhouse gases and its warming potential. 2+8=10
2. What is acid rain? Discuss briefly the formation of acid rain. 2+8=10
3. What is Remote sensing? Discuss briefly the basic principle used in remote sensing with suitable diagram. 2+8=10
4. What is Geographic Information System? Discuss the various components of GIS. 2+8=10
5. What is shifting cultivation? Discuss the ecological implication of shifting cultivation with special reference to North-east India. 2+8=10
6. What is phytogeography? Describe briefly about the various phytogeographic regions of India. 2+8=10
7. What are natural resources? Discuss the various factors responsible for the degradation of natural resources in North-east India. 2+8=10
8. Write short notes: (any two) 5+5=10
 - a) Sustainable development.
 - b) Shifting cultivation.
 - c) Ozone depletion.

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