

High Yield Hints- ECOLOGY AND ENVIRONMENT

1. A troublesome **American water weed** in India called “ **sorrow of Punjab** ” is - *Eichornia*
2. Bergman’s rule is related to - *Avian and Mammalian life*
3. The leaves of Tundra plant resemble the leaves of plant in the - *Desert*
4. A woody plant becomes hardened to the cold in preparation for winter. It lowers the freezing point of its cells and fluids by – *Increasing TP.*
5. Plants such as Prosopis, Acacia, and Capparis represent examples of tropical - *Grass lands*
6. Layering or Stratification is common in – *Tropical rain forests.*
7. The most important characteristic feature of Xeric environment is – *Low humidity.*
8. Rhizopora / Mangrooves of marshy / swampy Sunderbans is characterized by
– *Viviparity, Proproots, Pneumatophores*
9. Submerged Hyrophytes show – *Absence of cuticle and stomata on any surface.*
10. Salinity of soil can be corrected by the use of – *Lime.*
11. Black soil is rich in – *Clay and Humus.*
12. A non- succulent Xerophyte with thick leaves having white sticky waxy coating is – *Calotropis*
13. The correct sequence of organizational complexity is – *Population – Species – Community – Ecosystem.*
14. Allopatric speciation is due to – *Geographical isolation.*
15. Communication in honey bee is discovered by – *Karl Von Frisch.*
16. Two opposite forces operate in the growth and development of every population. One of them relates to the ability to reproduce at a given rate. The force opposing too it is – *Environmental resistance.*
17. Species diversity increases as one proceeds from – *High altitude to low altitude and from high latitude to low latitude.*
18. Mutualism (Reciprocal symbiosis) is mutually benefited relationship between two organisms. Anabaena and Azolla which cannot live independently. This is also found in – Rhizobium and Legumes, Sea anemone and Hermit crab, Zooxanthellae and Termites / Ruminants.
19. The type of food chain in which the energy rich organic compounds produced by producers is decomposed by microbes and converted into energy rich compound is – *Detritus food chain.*
20. The Ecological pyramid that never occurs in the Inverted form is – *Pyramid of Energy.*
21. The grass land that has richest and deepest soil and tall grasses is – *Prairies of Canada.*
22. 10 % Law is applied to – *Transfer of 10% energy from one trophic level to next and 90% loss and Transfer of 10% food from one trophic level to next and 90% is consumed.*
23. Competition for food, light and space is most severe in – *closely related species occupying the same niche.*
24. Warm ocean surge of Peru Current recurring every 5-8 years or so in the East Pacific of South America is – *El Nino.*
25. The part of the world that has high density of organisms is – *Tropical rain forests.*
26. Carbon dioxide is a green house gas because it is – *Transparent to solar radiation and opaque to Infrared and is a strong absorber of Infrared rays.*
27. Life in biosphere is abundant between – *200 m below sea level to 6000 m above sea level.*

28. The Phosphorous rich fertilizer obtained from Sea birds along the cost of Chili and Peru is
Guano.
29. In many countries, spread of Opuntia is controlled by – ***Introducing insects.***
30. Ecological Backlash or Ecological Boomerang is – ***Adverse ecological effect caused by a chemical which was previously useful.***
31. Leakage of Methyl iso cyanate (MIC) caused the biggest industrial disaster of the recent times in 1984 (Bhopal Tragedy). The industrial plant where the leakage occurred is – ***Pesticide factory.***
32. Ozone layer of Stratosphere requires protection from indiscriminate use of – ***Aerosols and high flying jets.***
33. The most dangerous Radio isotope to humans is – ***Strontium 90.***
34. The series of events that leads to Eutrophication are – ***High phosphate content – excess growth of algae – bacteria feed on dead algae – depletion of Oxygen.***
35. Agent Orange contains – ***2,4 D, 2,4,5 T, Dioxin as contaminant or carcinogen***
36. Itai – Itai or Ouch – Ouch disease is characterized by bone softening. It is due to – ***Cadmium.***
37. Kock knee disease is due to – ***Excess Fluoride in the water.***
38. Sewage water can be made it for drinking by using – ***Microbes (It is Bioremediation]***
39. NEERI is – ***National Environmental Engineering Research Institute.***
40. The most common indicator that represents polluted water is – ***Escherichia coli.***
41. Green Petrol is – ***Unleaded Petrol.***
42. Ozone day, World Environment day, and National Pollution Prevention day are celebrated respectively – ***Sept 16 , June 5 , Dec 2.***
43. Threatened species is – ***That is to be conserved to avoid its becoming rare, endangered, or vulnerable species.***
44. The most important activity responsible for the extinction / diminishing of wild life is
Alteration and destruction of natural habitats.
45. Project Tiger was launched in 1973. It is a – ***Conservation programme.***
46. Periyar wild life sanctuary of Kerala is famous for – ***Elephants and other animals.***
47. The symbol of WWFN is – ***Giant Panda.***
48. The Indian army wing that takes the task of preserving and restoring ecology of the country is
TASK.
49. Chipko Movement is the world's most known eco development programme started by S.L.Bahuguna in 1973 in Tehri Garhwal (Uttranchal). It is meant for –
Plant / Forest conservation.
50. Shifting cultivation is being practiced by some tribals in Assam and Europe. It is one of the causes of deforestation as a forest area is cleared by slashing (cutting) and burning of trees for cultivation for 3-5 years and then a new forest area is cleared. The abandoned area invites erosion wild vegetation. This type of cultivation is – ***Jhuming cultivation.***
51. The most important function of the forest to control drought is – ***Brings rain fall in monsoon.***
52. The main cause of increase in salinity of arid land due to irrigation is – ***solutes being brought up from lower soil horizon.***