

## Question Bank-B.Sc.II

### Q.1.Choose correct alternative and rewrite the sentences.

1. Humus has got ----- colour.

- i) Poor    ii) Dark    iii) Moderate    iv) No

2. The term ecology was coined by -----.

- i) Hackel    ii) Odum    iii) Reiter    iv) Linnaeus

3. Ammonium compounds are converted into nitrates by bacterium -----.

- i) *Bacillus*    ii) *Rhizobium*    iii) *Notrosomonas*    iv) *Azospirillum*

4. In epiphytes seed dispersal is caused by ----- .

- i) Wind    ii) Insects    iii) Birds    iv) All of these

5. ----- factor is essential for photosynthesis.

- i) Rainfall    ii) Light    iii) Temperature    iv) Soil

6. Andaman region shows dominant ----- forest.

- i) Pine    ii) Sal    iii) Mangrove    iv) Mango

7. ----- is agriculturally richest part of India.

- i) Malbar    ii) Assam    iii) Andaman    iv) Gangetic plains

8. In xerophytes ----- system is well developed.

- i) Root    ii) Stem    iii) Leaves    iv) All of these

9. Energy flow is always -----.

- i) Multidirectional    ii) Unidirectional    iii) Circular motion    iv) None of these

10. . ----- releases or secretes humic acid and carbonic acid when they grow on Rocks.

i) Gymnosperms ii) Angiosperms iii) Fergus iv) Mosses

11. The term ecology was coined from Greek Word -----.

i) Oikos ii) Ecos iii) House iv) Logous

12. Soil is ----- factor.

i) Biotic ii) Climatic iii) Edaphic iv) Topographic

13. ----- is not a state of Water.

i) Solid ii) Liquid iii) Vapour iv) Plasma

14. All the members of Viscaceae are -----.

i) Holoparasites ii) Hemiparasites iii) Obligate parasites iv) All of these

15. The ----- is more useful for plant growth

i) Visible light spectrum ii) Light spectrum iii) Cosmic ray light spectrum iv) Radio rays spectrum

16. The sciophytes are also called -----

i) Dark loving plants ii) Full bright sunlight loving plants iii) Shade loving plants iv) Night loving plants

17. *Hydrilla* is an example of ----- plant.

i) Mesophytic ii) Hydrophytic iii) Xerophytic iv) Epiphytic

18. *Bryophyllum* is an example of ----- xerophyte.

i) Succulent ii) Ephemeral iii) Non-succulent iv) None of these

19. In hydrophytes ----- is absent or poorly developed.

i) Sunken stomata    ii) Cuticle    iii) Cortex    iv) Epidermis

20. ----- proposed theory of tolerance.

i) Thoday    ii) Coins    iii) Roberts    iv) Good

21. Xerophytes show presence of ----- epidermis.

i) Single layered    ii) Waxy    iii) Multilayered    iv) Steroid

22. A parasitic relationship is opposite to -----

i) Epiphytic    ii) Mutualistic    iii) Commensilism    iv) All of these

23. All parasitic plants have modified ----- root.

i) Clinging    ii) Aerial    iii) Haustorial    iv) Pnematophore

24. Ecosystem is structural and ----- unit of communities.

i) Functional    ii) Reciprocal    iii) Non-functional    iv) All of these

25. The plants are called -----

i) consumers    ii) decomposers    iii) producers    iv) rotifers

26. The pyramid of energy is always -----

i) inverted    ii) upright    iii) circular    iv) quadrangular

27. The mangrove ecosystem is found in -----

i) Oceans    ii) Lakes    iii) Estuaries    iv) River

28. ----- defined Phytogeography as a branch of botany.

i) Linnaeus    ii) Roberts    iii) Steward    iv) Good

29. ----- deals with distribution of plants.

i) Biogeography ii) Phytogeography iii) Geography iv) Zoogeography

30. There are ----- phytogeographic region of India.

i) 10 ii) 9 iii) 8 iv) 12

**Q.2. Broad Answer Type Questions. (Each for 10 marks)**

1. Explain the scope of ecology in relation to Agriculture and Microbiology?
2. Define soil and explain soil formation process.
3. What are xerophytes? Explain in brief important internal adaptations in them
4. What are hydrophytes? Explain in brief important internal adaptations in them..
5. Describe various successional stages of hydrosere.
6. Describe various successional stages of xerosere.
7. What are ecological pyramids? Describe in brief different pyramids with suitable example?
8. Describe in brief phyto-geographical regions of India.
9. Explain nature of biogeochemical cycles.
10. Explain in brief nitrogen cycle.

**Q.3. Short Note Type Questions. . (Each for 05 marks)**

1. Biological weathering of rock
2. Soil Humus
3. Soil Profile
4. Water cycles
5. Raunkiaer's life forms
6. Physiognomy
7. Stratification
8. Characters of community
9. Hydric adaptations.
10. Xeric adaptation
11. Types of ecosystem
12. Food chains
13. Food web
14. Central Himalayas
15. Gangetic plain

16. Biotic components of ecosystem
17. Role of nitrogen to plants
18. Andaman region
19. Deccan plateu
20. Pyramid of biomass