

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore - 641043**

Master's Degree Examination - November 2017
III Semester

Class: II PG
Major : Biochemistry

Max. Marks: 60
Time : 3 Hours

TC
SR
8.11.17

12MBCC19 Environmental Biochemistry (Self study)

Part – A (10 X ½ = 5)

Answer the following

1. Second highest layer of earth's atmosphere is _____
a. Stratosphere b. Mesosphere c. Troposphere
b. Thermosphere
2. Temperature changes on earth are caused due to _____
a. Climate b. Slope c. Wind d. Direction
3. The biomass of an ecosystem consists of all _____
a) Living and nonliving components of the ecosystem, plus all the energy in the Ecosystem
b) Living components of the ecosystem
c) Nonliving components of the ecosystem
d) The energy in the ecosystem
4. Pyramid of numbers deals with number of _____
a. Species in area b. Subspecies in a community
c. Individual in a community d. Individuals in trophic levels
5. _____ of the following is not a gaseous biogeochemical cycle in ecosystem
a. Nitrogen cycle b. Carbon cycle
c. Sulphur cycle d. Phosphorus cycle
6. In a terrestrial ecosystem such as forest maximum energy lies in _____ trophic level
a. T1 b. T2 c. T3 d. T4
7. _____ of the following is the best indicator of SO₂ pollution
a. Bryophyte b. Teridophyte c. Lichens d. Algae
8. Minamata disease was caused by pollution of water by _____
a. Mercury b. Tin c. Lead d. Iso methyl cyanate
9. The word Tsunami has been derived from _____
a. Tamil b. French c. Japanese d. Latin
10. National Institute of Disaster Management is located at _____
a. Pune b. New Delhi c. Shimla d. Bangalore

Part – B (5 X 4 = 20)

Answer all questions

Each answer should not exceed 200 words or one page

11. (a) Explain the biological factors in the environment
(OR)
/ (b) Describe the structure and composition of atmosphere.
12. (a) How ecosystems are classified? Write about the energy flow in ecosystem.
(OR)
/ (b) Explain the ecological Pyramids.
13. (a) What is biogeochemical cycle? How do biogeochemical cycles work?
(OR)
/ (b) Write a short note on carbon cycle.
14. (a) What are the different types of waste?
(OR)
/ (b) Write sources and effects of noise pollution.
15. (a) What are different phases of disaster management?
(OR)
/ (b) Write a short note on environmental hazards.

Part – C (5 X 7 = 35)

Answer all questions

Each answer should not exceed 600 words or one page

16. (a) Describe the physico chemical factors of atmosphere.
(OR)
/ (b) What is habitat? Write about the types of habitat in detail.
17. (a) Discuss with diagram any one food chain and food web.
(OR)
(b) Write detailed note on components of ecosystem.
18. (a) Give a detailed account on Sulphur and Oxygen cycle.
(OR)
/ (b) Explain the structure and function of terrestrial ecosystem.
19. (a) Write an essay on treatment of waste water.
(OR)
(b) Give an account on sources and effects of air and water pollution.
20. (a) Discuss the role of institution and media in disaster management.
(OR)
/ (b) Write the disaster management in cyclone and landslides.
