

**Avinashilingam Institute for Home Science and Higher education for women  
(Deemed to be University) Coimbatore-641 043**

**Master's Degree Examination-November 2018  
III Semester**

**Class : II PG  
Major : Biochemistry**

**Max. Marks: 60  
Time : 3 Hours**

**17MBCC20-Environmental Biochemistry (Self Study)**

**Part-A**

**10x1/2=5**

**Choose the correct answer**

1. The layer that absorbs high energy radiation is  
a. Toposphere b. Mesosphere c. Stratosphere d. ionosphere
2. Area occupied by an organism is a  
a. Habitat b. Niche c. Zone d. Habit
3. An interconnected flow of energy from one trophical level to another is called  
a. Food web b. Food chain c. Food network d. food pyramid
4. \_\_\_\_\_ states the return of equilibrium to the ecosystem  
a. Resistance b. Resilience c. Recovery d. Revertant
5. Sequence of nitrogen cycle is  
a. N<sub>2</sub>, NH<sub>3</sub>, NO<sub>3</sub>, NO<sub>2</sub>, N<sub>2</sub> b. N<sub>2</sub>, NO<sub>2</sub>, NO<sub>3</sub>, NH<sub>3</sub>, N<sub>2</sub>  
c. N<sub>2</sub>, NH<sub>4</sub>, NO<sub>3</sub>, NO<sub>2</sub>, N<sub>2</sub> d. N<sub>2</sub>, NH<sub>3</sub>, NO<sub>2</sub>, NO<sub>3</sub>, N<sub>2</sub>
6. Which one is not true about Eutrophication  
a. Depletion of fish species b. Production of aquatic plants  
c. Depletion of algal species d. Enrichment of nutrient salts
7. \_\_\_\_\_ is considered as normal noise level  
a. 75 db b. 80 db c. 45db d. 60 db
8. BOD stands for  
a. Biological organism deterioration b. Biotechnological organism development  
c. Biological oxygen demand d. Biotechnological oxygen derivatives
9. Which of the following does not belong to pre disaster stage?  
a. Mitigation b. Preparedness c. Prevention d. Response
10. Important earthquake belt is  
a. Circum-Pacific Belt b. Artic belt c. Alpide belt d. Indian Oceanic Belt

**Part B**

**5x4=20**

**Answer ALL questions**

**Each answer should not exceed 200 words or one page**

11. (a) Brief on Ionosphere  
(Or)  
(b) Outline the concept of ecological niche with an example
12. (a) What are the types of ecosystem?  
(Or)  
(b) Discuss briefly on food chain
13. (a) Give a note on sulphur cycle  
(Or)  
(b) How oxygen is cycled in our environment?
14. (a) Comment on Noise pollution  
(Or)  
(b) List out the consequences of Air pollution
15. (a) Brief on land slides  
(Or)  
(b) Outline post disaster management

**Part C**

**5x7=35**

**Answer ALL questions**

**Each answer should not exceed 600 words or three pages**

16. (a) Discuss on biological factors  
(Or)  
(b) Describe types of habitat
17. (a) Describe the structure, component and functions of an ecosystem  
(Or)  
(b) Give an account on ecological pyramid
18. (a) Explain terrestrial ecosystem  
(Or)  
(b) Write short notes on carbon and nitrogen cycle
19. (a) Write an essay on solid waste management  
(Or)  
(b) What are the types of waste
20. (a) What are environmental hazards and disaster?  
(OR)  
(b) Explain the role of media in disaster management