



# Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

## Bachelor's Degree Examination – August 2020

### VI Semester

**Class : III UG**

**Major : Botany**

**Time : 2 Hours**

**Max. Marks: 50**

### 15BBOC24 Environmental Science

#### Part A

**10 x 1 = 10**

#### Choose the Correct Answer

- Which of the following pairs of gases are the major causes for 'green house effect'?  
a. CO<sub>2</sub> and N<sub>2</sub>O  
b. CO<sub>2</sub> and O<sub>3</sub>  
c. CO<sub>2</sub> and CO  
d. CFCs and SO<sub>2</sub>
- Biotic environment includes  
a. producers  
b. consumers  
c. decomposers  
d. all the above
- Energy flow in ecosystem is given by  
a. Haeckel  
b. Odum  
c. Tansely  
d. Ramdeo Mishra
- Autecology deals with  
a. ecology of species  
b. ecology of many species  
c. ecology of community  
d. All the above
- All the statements are correct regarding ecological succession except  
a. It is a random processes  
b. Species diversity increases  
c. The food chain become more complex  
d. The role of decomposers become more important
- The processes of successful establishment of the species in a new area is called  
a. Sere  
b. Climax  
c. Invasion  
d. Ecesis
- June 5<sup>th</sup> is observed as  
a. World forest day  
b. World environment day  
c. World wild life day  
d. World population day
- Ex situ* conservation includes  
a. Zoo  
b. Botanical garden  
c. Germplasm  
d. All the above
- Which of the following problems is not created by noise pollution?  
a. Deafness  
b. Hypertention  
c. Diarrhea  
d. Irritation
- High biological oxygen demand indicates  
a. absence of microbial pollution  
b. moderate microbial pollution  
c. intense level of microbial pollution  
d. all the above

**Part - B**

**3 x 6 = 18**

**Answer any Three questions**

**Each answer should not exceed 400 words or two pages**

11. Write a note on plant environment.
12. Comment on biotic factors.
13. Give an account on natural ecosystem.
14. Mention the role of producers and consumers in an ecosystem.
15. Give a brief account on units of vegetation.
16. Describe the morphological and anatomical features of Xerophytes.
17. Brief the different climatic zones of India.
18. What is Afforestation? Write the role in biodiversity.
19. Give an account on phytoremediation.
20. Critically analyze the effects of land movement disasters.

**Part - C**

**2 x 11 = 22**

**Answer any Two questions**

**Each answer should not exceed 800 words or four pages**

21. Write an essay on the role of climatic factors of an environment.
22. Mention in detail, how edaphic factors influence the environment.
23. Describe different types of ecological pyramids.
24. Give a detailed account on productivity of an ecosystem.
25. Describe the methods of studying vegetation.
26. Explain plant succession with suitable example.
27. Write an essay on different vegetational types in India.
28. Elaborate types of forest conservation.
29. Describe the causes and control measures of soil and radiation pollutions.
30. Mention the importance of disaster awareness and safety programmes to the public.

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