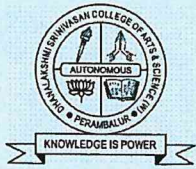


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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**



(For Candidates admitted from 2018-2019 onwards)

UG DEGREE EXAMINATIONS APRIL – 2021

B.SC - BIOTECHNOLOGY

ENVIRONMENTAL BIOTECHNOLOGY

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER.

(10*1=10)

1. The natural place of an organism or community is known as
a) Niche b) Biome c) Habitat d) Habit
2. Which is not characteristic of population
a) Natality b) Mortality c) Stratification d) Sex ratio
3. BOD stands for
a) Biotic oxidation demand b) Biological oxidation demand
c) Biological oxygen demand d) Biochemical oxygen demand
4. The term ecosystem was proposed by
a) Lindeman b) Tansley c) Grinnel d) Turesson
5. Cosmic rays, such as gamma rays are source of
a) Soil pollution b) Noise pollution c) Thermal pollution d) Radiation pollution
6. Liches are good bioindicators for
a) Environment radiation b) Soil pollution
c) Water and air pollution d) None of the above
7. _____ is an organism used to gauge the quality of ecosystem
a) Decomposers b) Predator c) Bioremediator d) Bioindicator
8. Example of green house gases
a) Nitrogen b) Ozone c) Argon d) None of the above
9. In which country are the most GMO crops grown
a) China b) Brazil c) Argentina d) United states
10. Which of the following do not have genetically engineered varieties?
a) Sugarbeats b) Plums c) Papaya d) Blue berries

PART – B

ANSWER ALL THE QUESTIONS

(5*7=35)

11. a) Write about influence of antibiotic factors on ecosystem.

(OR)

b) Elaborate various branches of ecology?

12. a) Add note on food chain?

(OR)

b) Write about energy flow in terrestrial ecosystem?

13. a) Write about source and nature of environmental pollution?

(OR)

b) Give a short note on greenhouse effect?

14. a) What are phytoremediation? What are its advantages and limitations?

(OR)

b) With a neat labelled diagram give a short account on Bioremediation.

15. a) Write about impact of GMO plants in agriculture.

(OR)

b) Describe about hazards of Genetically modified organisms.

PART – C

ANSWER ANY THREE QUESTIONS

(3*10=30)

16. Explain about significance of biotic factors in Ecosystem with neat diagram.

17. Detailed account on population ecology?

18. What is soil pollution? What are its sources and effects and control?

19. What is the necessity of bioremediation? How it is achieved?

20. Describe the policies of genetic engineering research.