



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

Master's Degree Examination – June 2021

IV Semester

Class : II M.Sc.

Major : Botany

Time: 3 Hours

Max. Marks: 100

17MBOC22- Environmental Science and Phytogeography

PART A

10 x 1 = 10

Choose the Correct Answer

1. An example of biotic components in the nature is CO1K1
a. Cells b. organisms c. organic molecules d. all of them
2. Which is/are the abiotic components of an ecosystem CO1K1
a. Soil b. Protein c. Carbon d. All of the above
3. A group of population is known as CO1K1
a. Community b. Crowd c. Area d. Population
4. "Biomass" is the CO2K1
a. Dry weight of organisms b. Fresh weight of organisms
c. Both are correct d. None of the above
5. The set of ecosystem is called CO2K2
a. Atmosphere b. Hydrosphere c. Biosphere d. None of the above
6. In ecological succession, the intermediate developmental phase is known as CO2K1
a. Ecesis b. Climax c. Nudation d. Sere
7. In which of the regions of India do you find tropical rain forest? CO3K1
a. North West and South East b. Central India
c. North East d. South West and North East
8. Which one of the following types of forest is a teak dominant tree species? CO3K1
a. Tropical moist deciduous Forest b. Tropical Rain Forest
c. Tropical thorn scrub Forest d. Temperate Forest with grassland
9. Cosmic rays, such as gamma rays are a source of CO4K1
a. Soil Pollution b. Noise Pollution
c. Thermal Pollution d. Radiation pollution
10. 5th June is observed as CO3K1
a. World forest day b. World environment day
c. World wildlife day d. World population day

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. List the various branches of ecology. CO1K3
(or)
- 11.b. Explain about abiotic factors. CO1K2
- 12.a. Briefly explain the quantitative structure of plant communities. CO1K2
(or)
- 12.b. Discuss the characteristics of populations. CO2K2
- 13.a. Comment on pond ecosystem. CO2K1
(or)
- 13.b. Explain about sulphur cycle. CO3K2
- 14.a. What are the principles and importance of plant geography. CO3K1
(or)
- 14.b. Explain the patterns of distribution. CO3K2
- 15.a. List out and explain the control measures of air pollution. CO4K3
(or)
- 15.b. Discuss about ecological effects of pollution. CO4K4

Part C
Answer ALL questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

- 16.a. Discuss in detail about Ecological factors. CO1K3
(or)
- 16.b. Write a detailed account on producer, consumer and decomposers. CO1K3
- 17.a. Classify and explain the community ecology. CO1K4
(or)
- 17.b. Describe the qualitative and synthesize characteristics of plant communities. CO2K2
- 18.a. Write an essay on ecological pyramids. CO3K3
(or)
- 18.b. Explain carbon and nitrogen cycles. CO3K2
- 19.a. List out and explain the phytogeographical regions of India . CO4K3
(or)
- 19.b. Differentiate continental drift hypothesis and Age and area hypothesis. CO3K4
- 20.a. Write the causes and control measure of water and soil pollution. CO4K3
(or)
- 20.b. Discuss briefly about Bioremediation. CO4K3
