•	(Pages: 3) ORE COLLEGE T - 6399
Reg. No. :	O KEHALA
Name :	TO KEHALA A
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Second Semester M.Sc. Degree Examination, September 2024

Botany

BO 222: ENVIRONMENTAL BIOLOGY, FOREST BOTANY, PHYTOGEOGRAPHY AND CONSERVATION BIOLOGY

(2019 Admission Onwards)

Time: 3 Hours Max. Marks: 75

(Draw diagrams wherever necessary)

- I. Answer the following questions.
- 1. Differentiate between mesophytes and epiphytes.
- 2. What is the first law of thermodynamics?
- 3. Define the term deme
- 4. Define ecotones
- 5. What are the features of Tundra Forests?
- 6. Name the districts with major distribution of mangroves in Kerala and in India.
- 7. What is the relevance of GIS in environmental studies?
- 8. Mention the uses of Sandal wood oil
- 9. What is meant by dynamic phytogeography?
- 10. Mention the importance of Remote sensing.

 $(10 \times 1 = 10 \text{ Marks})$

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- II. Answer the following questions in not more than 50 words.
- 11. (a) Explain the term metapopulation.

OR

- (b) Comment on interdemic extinctions.
- 12. (a) Describe the desert ecosystem of India.

OR

- (b) Write notes on riparian ecosystems.
- 13. (a) How forests affect the nature of environment?

OR

- (b) What are the consequences of industrialization?
- 14. (a) Give an account of Red data book.

OR

- (b) Write about non-polluting energy systems.
- 15. (a) Explain the strategies for sustainable industrial development.

OR

(b) Write about major objectives of UNEP.

 $(5 \times 2 = 10 \text{ Marks})$

- III. Answer the following questions in not more than 150 words.
- 16. (a) Explain different types of inter-specific competitions.

OR

- (b) Differentiate between ecophenes and ecotypes.
- 17. (a) Describe the wild life sanctuaries in Kerala.

OR

(b) Give an account of Green-house effect and Ozone layer depletion.

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18. (a) Write an account on the importance of environmental education and awareness.

OR

- (b) Comment on tropical rain forests.
- 19. (a) Write about climate of India.

OR

- (b) Explain continental drift hypothesis.
- 20. (a) Write notes on conservation of physical resources of the environment.

OR

- (b) Explain IBP in detail.
- 21. (a) Explain various conventional and non-conventional resources of energy.

OR

- (b) Give an account of various in-situ and ex-situ conservation strategies.
- 22. (a) Explain the strategies of Wildlife Preservation Act 1972.

OR.

(b) Write about Gaia hypothesis.

 $(7 \times 5 = 35 \text{ Marks})$

- IV. Answer the following questions in not more than 250 words.
- 23. (a) Write an essay on phyto-geographic regions of the world.

OR

- (b) Give an account of Novel agricultural technologies.
- 24. (a) Give an account of major drivers of biodiversity change.

OR

(b) Describe various global environmental problems in detail.

 $(2 \times 10 = 20 \text{ Marks})$

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