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D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1

SEMESTER EXAMINATIONS

JUNE – 2022

21CPZO2B

ENVIRONMENTAL BIOLOGY AND EVOLUTION

Time: 3 Hrs

Max. Marks: 75

SECTION – A (5X 6 =30)

Answer ALL the questions.

1. (a) Explain food chain with two examples.

(Or)

- (b) Explain any one man-made ecosystem.

2. (a) Explain pyramid of biomass with a suitable example.

(Or)

- (b) Write a short notes on fresh water aquatic environments.

3. (a) Write a notes on rainwater harvesting.

(Or)

- (b) Briefly describe social forestry.

4. (a) Define and discuss polymorphism.

(Or)

- (b) Explain with examples the types and evolutionary significance of mimicry.

5. (a) Discuss the role of mutations in evolution.

(Or)

- (b) Brief about Mayer's Founder principle.

SECTION – B (3X 15 =45)

Answer any THREE of the following questions.

6. Explain energy flow in an ecosystem with a suitable example.
7. Describe in detail on renewable and non renewable resources.
8. Give a detailed account of the biosphere reserves.
9. Write a detailed account on the evidences for evolution from the following.
- a) Embryology
 - b) Physiology
 - c) Biochemistry
10. Write an essay on Altruism and Kin selection.

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