

QP CODE: 24900099



Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIRST SEMESTER MGU-UGP (HONOURS) REGULAR
EXAMINATION NOVEMBER 2024

First Semester

Discipline Specific Core Course - MG1DSCEVS100 - ENVIRONMENTAL BIOLOGY

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours

Maximum Marks: 50

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I),
Appreciation (Ap), and Skill (S)**

*Students should attempt atleast one question from each course outcome to enhance their overall
outcome attainability.*

[Learning Domain][CO No(s)]

Part A

Short Answers

Answer 10 questions. Each question carries 1 mark

- | | | | |
|----|---|------|-----|
| 1 | Name any four nutrient cycles. | [K] | [2] |
| 2 | Define Poikilotherms. | [K] | [2] |
| 3 | What is food chain? | [K] | [2] |
| | | | |
| 4 | How is net primary productivity is different from gross primary productivity? | [An] | [2] |
| 5 | What is biomagnification? | [U] | [2] |
| 6 | Define synecology. | [U] | [1] |
| 7 | What are two important actions we can take to protect the environment? | [A] | [1] |
| 8 | What are the three main types of biodiversity? | [U] | [3] |
| 9 | Give two examples for keystone species. | [K] | [3] |
| 10 | What you meant by biodiversity hotspots? Give any two examples. | [U] | [3] |
| 11 | Name two important scopes of environmental studies? | [K] | [1] |
| 12 | Analyze how human activities contribute to the disruption of the environment? | [An] | [1] |

(10 × 1 = 10)

Part B

Short Essay Type Questions

Answer 6 questions. Each question carries 5 marks.

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|----|--|------|-----|
| 13 | Explain the biotic and abiotic components of an ecosystem with examples. | [U] | [1] |
| 14 | What is pyramid of biomass? | [U] | [2] |
| 15 | Explain <i>in situ</i> conservation methods with suitable examples. | [U] | [3] |
| 16 | Differentiate between tropical grasslands and temperate grasslands. | [An] | [2] |
| 17 | How is primary productivity is measured? | [E] | [2] |
| 18 | Explain the multidisciplinary nature of environmental studies? | [An] | [1] |
| 19 | How does the human activities affect the nutrient cycling? | [U] | [2] |
| 20 | Give four adaptations of desert animals. | [K] | [2] |

(6 × 5 = 30)

Part C

Essay Type Questions

Answer any one question. Question carries 10 marks.

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|----|--|-----|-----|
| 21 | What is the nitrogen cycle? What are the steps involved in biological nitrogen fixation? | [U] | [2] |
| 22 | Define Red data book. How it influence the biodiversity conservation? Explain. | [A] | [3] |

(1 × 10 = 10)

END OF THE QUESTION PAPER
