

QP CODE: 24900031



Reg No:.....

Name:.....

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

First Semester

Multi-Disciplinary Course - MG1MDCBTG100 - ECOLOGY AND ENVIRONMENTAL SCIENCE

(2024 ADMISSION ONWARDS)

Duration: 1 Hours

Maximum Marks: 35

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

Answer The Questions In One Word Or Sentence

Answer all questions.

Each question carries 1 mark

- | | | |
|---|--|---------|
| 1 | Which trophic level occupies the base of the ecological pyramids? | [K] [1] |
| 2 | Which group in an ecosystem includes bacteria and fungi? | [U] [1] |
| 3 | Name any one national park in India. | [A] [2] |
| 4 | A set of ecosystem is called | [K] [1] |
| 5 | What is the apex of an ecological pyramid? | [K] [1] |
| 6 | Give an example for abiotic component in an ecosystem. | [U] [1] |
| 7 | Which ministry oversees the implementation of the NRCP? | [U] [3] |
| 8 | What climate challenge involves glacial melt and affects the region? | [A] [3] |
| 9 | What is the primary focus of CAMPA's fund allocation? | [A] [3] |

- 10 What tree species is often planted in afforestation projects in India? [K] [3]

(10 × 1 = 10)

Part B

Short Answer Questions

Answer any 3 questions.

each question carries 3 marks

- 11 Define a food chain and explain its importance in ecosystem. [U] [1]
- 12 Illustrate how afforestation and reforestation efforts under the Green India Mission can impact local ecosystems and communities. [A] [3]
- 13 Differentiate between Beta diversity and Gamma diversity. [A] [2]
- 14 Explain the significance of biodiversity in the Sundarbans mangrove ecosystem. [U] [3]
- 15 What are the major types of ecosystem? [K] [1]

(3 × 3 = 9)

Part C

Short Essay Questions

Answer any 1 question.

each question carries 6 marks.

- 16 Explain the ecological importance of the Nilgiri Tahr and its role in the ecosystem. [A] [3]
- 17 Explain the activities involved in germplasm conservation. [A] [2]

(1 × 6 = 6)

Part D

Essay Questions

Answer any 1 question (10 marks)

- 18 Compare and contrast different types of food chains in detail. [U] [1]
- 19 Evaluate the effectiveness of the "Green India Mission" in enhancing forest cover and biodiversity. [A] [3]

(1 × 10 = 10)

END OF THE QUESTION PAPER
