

QP CODE: 24900032



Reg No:.....

Name:.....

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

First Semester

Discipline Specific Core Course - MG1DSCBOT100, MG1DSCBBT100 -
FASCINATING WORLD OF PLANT SCIENCES

(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.

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|----|--|-----|-----|
| 1 | Give two examples of fibre yielding plants. | [K] | [1] |
| 2 | Which book by Carl Linnaeus introduced the binomial nomenclature system? | [K] | [1] |
| 3 | Give the minimum contents in a field book. | [A] | [3] |
| 4 | Write two examples of algae. | [K] | [2] |
| 5 | Name one edible mushroom species. | [K] | [2] |
| 6 | What is the dominant generation in the life cycle of gymnosperms? | [K] | [2] |
| 7 | Give two examples for biomimicry. | [K] | [2] |
| 8 | Which group of land plants have gametophytic plant body as dominant phase in their life cycle? | [U] | [2] |
| 9 | What is scanning electron microscopy? | [U] | [3] |
| 10 | How does the total magnification of a compound microscope get calculated? | [A] | [3] |
| 11 | Name one application of centrifugation. | [K] | [3] |
| 12 | What is chromatography? | [K] | [3] |

(10 × 1 = 10)

Part B

Short Essay Type Questions

Answer 6 questions. each question carries 5 marks.

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|----|---|------|--------|
| 13 | Briefly analyse the evolutionary trends in land plants. | [An] | [2] |
| 14 | Analyse the significance of fig leaves in lemur diets. | [An] | [2] |
| 15 | What are the advantages and limitations of free hand sectioning? | [U] | [3] |
| 16 | Briefly describe Agarose gel electrophoresis | [U] | [3] |
| 17 | What is DNA barcode? What is its significance in species identification? | [U] | [3] |
| 18 | Explain the significance of ethnobotany in pharmaceutical industry. | [U] | [4, 5] |
| 19 | Describe the principles and process of paper chromatography. | [U] | [3] |
| 20 | Why researches in crop improvement field considered as very crucial for human life? | [An] | [4, 5] |

(6 × 5 = 30)

Part C

Essay Type Questions

Answer any one question. question carries 10 marks.

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|----|--|------|-----|
| 21 | Compare artificial, natural and phylogenetic system of classification of plants. | [U] | [3] |
| 22 | Discuss psychoactive plants with relevant examples and analyze their significance in traditional healthcare systems. | [An] | [2] |

(1 × 10 = 10)

END OF THE QUESTION PAPER
