

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
MGU-UGP (HONOURS) REGULAR EXAMINATION NOVEMBER 2026
FIFTH SEMESTER

Discipline Specific Elective Course (DSE): MG5DSEBOTA01
AGROBOTANY OF PLANTATION CROPS AND SPICES
(2024 ADMISSION ONWARDS)

Duration: 2 h**Maximum Marks: 70**

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)
Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

Part A**Short Answer**

Answer any 10 questions.

Each question carries 2 marks

		Taxonomy	CO
1	Explain the importance of the spice industry in the Indian economy.	Knowledge	1
2	Mention any two economic importance of plantation crops.	Knowledge	1
3	Briefly describe the contribution of plantation crops to the economy of India.	Knowledge	1
4	Write the scientific name, family and one major use of cardamom.	Knowledge	2
5	Mention the methods of propagation used in coconut and coffee	Knowledge	1
6	What are the in vitro methods used for rapid multiplication of tea?	Understand	4
7	Describe the seedling rearing practices in rubber.	Understand	4
8	How do crop propagation and breeding practices improve crop productivity?	Understand	4
9	State the soil and climatic requirements of any one plantation crop.	Knowledge	1
10	Mention the micronutrients required for plantation crops.	Knowledge	1
11	Mention any two major pests and diseases affecting plantation crops.	Knowledge	3
12	Explain the term phytopathology and its significance in plantation crop production.	Understand	3

(2×10=20)**Part B****Short Essay**

Answer any 8 questions.

Each question carries 5 marks.

13	Classify spices with suitable examples.	Understand	3
14	Describe the botany of pepper including its scientific name, family and economic uses.	Understand	3
15	Write an account of coconut, coffee, rubber and tea with reference to their scientific name, family and uses.	Understand	2
16	Explain the seedling rearing techniques adopted in coconut and coffee.	Knowledge	1
17	Describe the crop propagation practices observed during your field visit.	Knowledge	1
18	Explain the learning outcomes of your visit to an agricultural research station for studying crop propagation and breeding practices.	Understand	4
19	Discuss the land preparation and planting techniques adopted for plantation crops.	Understand	3
20	Explain the importance of organic manures such as green manure, compost and farmyard manure in plantation crops.	Knowledge	1

21	Explain the principles of Integrated Pest Management (IPM) and its importance in plantation crops.	Understand	5
22	Discuss the medicinal properties of cardamom, pepper, clove and turmeric and mention the nutraceutical products prepared from them.	Understand	5
(5×8=40)			

Part 3

Essay

Answer any 1 questions.

Each question carries 10 marks.

23	Explain in detail the fertilizer management practices adopted in coconut, coffee, rubber and tea.	Understand	3
24	What are the suitable postharvest processing techniques to improve the quality and shelf life of coffee and tea.	Understand	5
(10×1=10)			