

MASTER OF VOCATION**Agriculture****Subject: Diversified and Sustainable Agriculture System****Subject Code: AGM804****Semester: First****September 2022****Theory (External): 70 Marks****Time: 03 Hours****Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

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SECTION –A (SHORT/ OBJECTIVE TYPE QUESTIONS)
(10x2=20 Marks)

- A. Briefly explain what is sustainable agriculture?
- B. How does overgrazing of range lands affect our environment?
- C. Define conventional agriculture.
- D. Why is it important to maintain ecological balance?
- E. What is Biodiversity and what is its importance?
- F. Briefly explain what is soil sickness?
- G. What are sustainable resources?
- H. What is the best description of sustainable land management?
- I. What is accelerated soil erosion?
- J. Briefly explain what is Tillage and the processes involved?

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SECTION –B (ESSAY TYPE QUESTIONS)
(5x10=50 Marks)

1. What are the ethical issues associated with sustainable agriculture? What role do Deforestation and over exploitation of ground water play in affecting the ecological balance?
2. Illustrate the sustainable development goals. Explain what is agricultural sustainability index?
3. Explain what is Modern and conventional agriculture in relation to sustainable agriculture? Briefly explain the scope and advantage of sustainable agriculture.
4. How does sustainable agriculture affect the economy? Highlight some long term benefits of sustainable agriculture.
5. What do you mean by reduction in biodiversity? How does improved crop production impact biodiversity?
6. Explain in detail the hazards of indiscriminate use of agro-chemicals. Explain how depletion in soil fertility be avoided.
7. Explain effective strategies to use water and forest more sustainably?
8. Discuss the components of sustainable agriculture in terms of – fertilization and irrigation. Briefly relate a success story by ICAR.

==END OF PAPER==