

MBA in AVCM Sem.-1 Examination

IIS-4 Natural Farming

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Instructions:

- *Question no 1 to 4 carry 14 marks each, with both the questions mentioned in question 1 to 4 of 7 marks each.*
- *Question no 5 carries 14 marks (each question of 2 marks). Out of the 12 questions, attempt any seven.*

Question 1

- What is the role played by Earthworms in agriculture? How the earthworms move in soil? How mulching provides a good environment for the presence of earthworm in a field? (7 marks)
- What is natural farming? Discuss the principles of natural farming in detail. (7 marks)

OR

- What is mulching? Why is it emphasized now a days in natural farming? Describe briefly the types of mulches. (7 marks)
- Explain briefly the following: Zero Energy Cool Chamber, Tri-partite interaction in plants, modified air packaging. (7 marks)

Question 2

- What is post-harvest management? Why it is important in agriculture value chain management? Discuss some of the techniques of post-harvest management for agricultural produce. (7 marks)
- Why do you think water resource management is one of the most important pillars of agriculture? How water resource management can be done in urban and rural areas? What are the different types of water conservation techniques? (7 marks)

OR

- What are the major issues in post-harvest management? How they can be overcome? What role entrepreneurs can play in managing the post-harvest? How technology can be utilized for the same? (7 marks)
- What do you mean by value chain in agriculture? How did this idea came into picture? Who are the major role players in agricultural value chain and why? How value chain affects the supply chain in agriculture? (7 marks)

Question 3

- Why do you think the entire concept of natural farming revolves around cow in India? Do you think this is scientific? How natural farming can be practices in regions where cows are not abundantly found? (7 marks)
- What are the issues around food? Explain seven of them in detail. (7 marks)

OR**P.T.O.**

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- i. What do you understand by plant breeding? What are its objectives? What are the different methods of plant breeding that are commonly utilized? (7 marks)
- ii. What do you understand by natural farming and why it is considered as the need of the hour? What are the four pillars of natural farming? Explain each of them (7 marks)

Question 4

- i. What do you understand by the term "weed" in agriculture? How they hamper the agricultural productivity? What is integrated weed management? (7 marks)
 - ii. What is the role of microorganisms in below ground? (7 marks)
- OR**
- i. Explain briefly the following: Tri-partite interaction in plants, Zero Energy Cool Chamber, Photosynthesis (7 marks)
 - ii. What are the different types of livestock and how do they play important role in agriculture? What is the scientific basis of considering cow dung for most of natural farming formulations in India? (7 marks)

Question 5

Attempt any seven out of twelve questions mentioned below:

14 marks

1. With reference to micro-irrigation, which of the following statements is/are correct?
 - i. It helps in water conservation
 - ii. It helps in soil conservation
 - iii. It enhances productivity
 - iv. All the above
2. After adding all the ingredients of Jeevamrit, in which direction stirring is done?
 - i. Clockwise
 - ii. Anti-clockwise
 - iii. Both i & ii
 - iv. No specific method
3. What is food security?
 - i. It relates to efforts to prevent terrorists from poisoning food supplies.
 - ii. It is about ensuring everyone's access to food
 - iii. Its component elements include availability, utilization, and stability, as well as access.
 - iv. Food security focuses primarily on ending micronutrient malnutrition.
4. Who is considered as the father of Natural Farming in India?
 - i. Goriprathi Narsimha Raju Yadav
 - ii. Subhash Palekar
 - iii. Rajat Seth
 - iv. Akash Sishodakar
5. What is the primary cause of the overall rising trend in CO₂ in the atmosphere?
 - i. The increase in CO₂ is caused by burning of fossil fuels
 - ii. CO₂ is increasing because we are coming out of the ice age.
 - iii. As human population grows, people exhale more CO₂
 - iv. CO₂ is released by the oceans as they warm.
6. What is modified air packaging?
7. What is subsistent agriculture?
8. Define jhoom cultivation.
9. Define the terms beejamirt and jeevamrit.
10. What is the basic principle of pest management in natural farming and why?
11. What is agro-ecotourism?
12. Give two examples of abiotic factors in agriculture.

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