

End Semester/Reappear (Semester VI) Examination May 2025

Programme: B. Sc. (Hons.) Agriculture

Course: Principles of Organic Farming

Course Code: 13A.365

Full Marks: 50

Time: 2 Hrs.

Enrolment no. _____

| Q.No. | Questions | CO | Bloom Taxonomy Category | Marks | | | | | | | | | | | |
|------------------------------------|---|---------------|-------------------------|---------------------|-----------------------|------------------------------|--------------|-------------------------|----------------|-----------------|--------------|--------------------|----------------|-----|------------|
| Section I | | | | | | | | | | | | | | | |
| 1 | Short Answer type questions. | | | | | | | | | | | | | | |
| a | Discuss any two initiatives taken by the Government of India for promotion of organic agriculture. | CO1 | Understand | 4 x 5 = 20 | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| b | Compare bulky organic manure and concentrated organic manure. | CO1 | Understand | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| c | Illustrate the sources of organic wastes and mention its proper use in crop production. | CO2 | Apply | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| d | Summarise the term restriction to nutrient use in organic farming. | CO2 | Understand | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| e | State the constraints in organic certification. | CO3 | Remember | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| f | Describe the marketing and export of organic product. | CO3 | Understand | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| g | Briefly explain the process of panchgavya preparation. | CO1 | Understand | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| h | Mention the objective of fortification in organic farming. | CO1 | Remember | | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |
| Section II | | | | | | | | | | | | | | | |
| Long Answer type questions. | | | | 2 x 15 = 30 | | | | | | | | | | | |
| 2 | a. Briefly explain Paramparagat Krishi Vikas Yojana (PKVY) and National Food Security Mission (NFSM). | CO1 | Analyze | 10 | | | | | | | | | | | |
| | b. Define organic farming. State in brief the objective of organic farming. | CO1 | Remember | 5 | | | | | | | | | | | |
| 3 | or | | | | | | | | | | | | | | |
| | a. Explain any four-initiatives taken by government, NGOs and other organizations for promotion of organic farming. | CO1 | Analyze | 10 | | | | | | | | | | | |
| 4 | b. Discuss fortification of compost and Farm yard manure. | CO1 | Understand | 5 | | | | | | | | | | | |
| | a. Analyse in detail the selection of crops and varieties in organic farming. | CO2 | Analyze | 10 | | | | | | | | | | | |
| 5 | b. Match the following: | | | | | | | | | | | | | | |
| | <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Insect</td> <td style="width: 50%;">Weed control</td> </tr> <tr> <td>i. Mexican gall fly</td> <td><i>Lantana camara</i></td> </tr> <tr> <td>ii. <i>Neochetina burchi</i></td> <td>Prickly pear</td> </tr> <tr> <td>iii. <i>Crocidosama</i></td> <td>Water hyacinth</td> </tr> <tr> <td>iv. Flea beetle</td> <td>Leafy spurge</td> </tr> <tr> <td>v. Cochineal scale</td> <td>Congress grass</td> </tr> </table> | Insect | Weed control | i. Mexican gall fly | <i>Lantana camara</i> | ii. <i>Neochetina burchi</i> | Prickly pear | iii. <i>Crocidosama</i> | Water hyacinth | iv. Flea beetle | Leafy spurge | v. Cochineal scale | Congress grass | CO2 | Understand |
| Insect | Weed control | | | | | | | | | | | | | | |
| i. Mexican gall fly | <i>Lantana camara</i> | | | | | | | | | | | | | | |
| ii. <i>Neochetina burchi</i> | Prickly pear | | | | | | | | | | | | | | |
| iii. <i>Crocidosama</i> | Water hyacinth | | | | | | | | | | | | | | |
| iv. Flea beetle | Leafy spurge | | | | | | | | | | | | | | |
| v. Cochineal scale | Congress grass | | | | | | | | | | | | | | |
| 6 | or | | | | | | | | | | | | | | |
| | a. Breakdown the characteristics of crop and varieties for organic farming. | CO2 | Analyze | 10 | | | | | | | | | | | |
| 7 | b. Discuss the mechanical methods of weed management. | CO2 | Understand | 5 | | | | | | | | | | | |
| | or | | | | | | | | | | | | | | |

Course Outcome:

At the end of the course the student will be able to:

CO1 Design the production of crops utilizing organic farming concepts.

CO2 Judge the selection of crops and varieties for organic produce.

CO3 Plan the techniques and certification process.