Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec - 2017**

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| **Code :** | **17AT1001** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **INTRODUCTION TO AGRICULTURE** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Course outcomes** | **Marks** |
|  | **PART-A(10X1=10 MARKS)** | | |
| 1. | Edaphology is \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 2. | Give one example for sedimentary rock. | CO2 | 1 |
| 3. | Define agronomy. | CO1 | 1 |
| 4. | Name one important herbicide used in agriculture. | CO1 | 1 |
| 5. | Enlist two moisture sensitive stages for wheat crop. | CO3 | 1 |
| 6. | Write any two major field cropsin India | CO1 | 1 |
| 7. | Name any four major vegetable crops in India. | CO1 | 1 |
| 8. | The percentage of N in Glyricida leaf is \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 9. | The percentage of N in neem cake is \_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 10. | Name one immobile element in plant. | CO1 | 1 |

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|  | **PART B(5 X 3= 15 MARKS)** | | |
| 11. | What is minimum tillage? | CO1 | 3 |
| 12. | Enlist three secondary and micro nutrients for crop production? | CO3 | 3 |
| 13. | Explain cropping pattern and relay cropping. | CO1 | 3 |
| 14. | What are the major fruit crop and how it is important to the human diet? | CO1 | 3 |
| 15. | Explain fertigation? | CO3 | 3 |

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|  | **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | a. | List out the physical, chemical and biological weathering process. | CO2 | 10 |
|  | b. | Give the USDA soil textural triangle. | CO2 | 5 |
|  | (OR) | | | |
| 17. | a. | Write three examples of major, secondary and micro nutrients. | CO3 | 9 |
| b. | What is integrated nutrient management? | CO3 | 6 |
|  |  |  |  |  |
| 18. | a. | How crops are classified? | CO1 | 7 |
|  | b. | Give the agricultural classification with suitable examples? | CO1 | 8 |
|  | (OR) | | | |
| 19. | a. | Explain macro propagation of Horticulture crops with examples? | CO1 | 10 |
| b. | Give any five major fruit crops cultivated in India | CO1 | 5 |
|  |  |  |  |  |
| 20. |  | What are the criteria of sustainable agriculture? How it differs from conventional agriculture? | CO3 | 15 |
|  | (OR) | | | |
| 21. | a. | Define organic farming? | CO3 | 3 |
| b. | What are the steps in organic farming? | CO3 | 12 |
|  |  |  |  |  |
| 22. | a. | What are the objectives of tillage? | CO1 | 7 |
| b. | Give the types of tillage. | CO1 | 3 |
| c. | Explain primary tillage? | CO1 | 5 |
|  | (OR) | | | |
| 23. | a. | What is available soil moisture? | CO2 | 3 |
| b. | How the bulk and particle density influence the soil porosity? | CO2 | 6 |
| c. | What is the normal moisture extraction pattern of field crops? | CO2 | 6 |
|  |  |  |  |  |
| 24. | a. | Define weed? | CO1 | 2 |
| b. | How weeds are classified? | CO1 | 7 |
| c. | What are harmful effects of weeds? | CO1 | 6 |
|  | (OR) | | | |
| 25. | a. | What is post harvest operation in fruit and vegetables? How grading and packing influence the marketing? | CO1 | 10 |
|  | b. | Explain plant growing structures for special horticultural practices? | CO1 | 5 |

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