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

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18AG1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF AGRONOMY** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define Agronomy. | CO1 | 1 |
| 2. | Define crop rotation. | CO2 | 1 |
| 3. | Define tillage and tilth. | CO1 | 1 |
| 4. | Define crop geometry and crop density. | CO2 | 1 |
| 5. | What is a weed? Give an example for Parasitic weeds. | CO3 | 1 |
| 6. | Define biofertilizers. | CO2 | 1 |
| 7. | What is allelopathy? | CO3 | 1 |
| 8. | Define growth. | CO2 | 1 |
| 9. | Define plant ideotype. | CO2 | 1 |
| 10. | Define manures and fertilizers. | CO2 | 1 |
| 11. | Define drilling and dibbling. | CO1 | 1 |
| 12. | Define zero tillage. | CO1 | 1 |
| 13. | What is Nutrient Use Efficiency? | CO2 | 1 |
| 14. | Define harvest. | CO2 | 1 |
| 15. | List out macro nutrients and micro nutrients. | CO2 | 1 |
| 16. | Define transplanting and gapfilling. | CO2 | 1 |
| 17. | Define Herbicide. | CO3 | 1 |
| 18. | Define Integrated Weed Management. | CO3 | 1 |
| 19. | Define Complex and Mixed fertilizers. | CO2 | 1 |
| 20. | Define crop weed competition. | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Write down the objectives of tillage. | CO1 | 5 |
| 22. | Define organic manures and write the classification of organic manures. | CO2 | 5 |
| 23. | Define Agriculture and write the scope and importance of Agriculture. | CO1 | 5 |
| 24. | Explain in detail the crop rotation and its principles. | CO2 | 5 |
| 25. | What are all the factors affecting the tillage operation? | CO1 | 5 |
| 26. | Write down the harmful and beneficial effects of weeds. | CO3 | 5 |
| 27. | Write down the role of manures and fertilizers in crop production. | CO2 | 5 |
| 28. | Define seed and write down the different classes of seeds. | CO1 | 5 |
| 29. | Explain the different temperature injuries during the crop growth. | CO2 | 5 |
| 30. | Write down the different methods of harvesting along with suitable example of crops. | CO2 | 5 |
| 31. | Write down the classification of herbicides. | CO3 | 5 |
| 32. | What are all the measures to reduce the loss of N from applied urea? | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Write down the importance and different types of classification of crops. | CO1 | 15 |
| b. | Define sowing. Discuss the different methods of sowing and its merits and demerits. | CO2 |
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| 34. | a. | Elaborately write the tillage and its types. | CO1 | 15 |
| b. | Define weed control. Elaborate the different methods of weed control with its merits and demerits. | CO3 |
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| 35. | a. | Define crop growth. List out the different factors affecting the crop growth highlighting any two factors elaborately. | CO2 | 15 |
| b. | Briefly write down the crop management technologies in problematic areas. | CO2 |