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



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

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| **Code :** | **17AG1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PRINCIPLES OF AGRONOMY AND AGRICULTURAL HERITAGE** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | Define Agriculture. | CO1 | 1 |
| 2. | Define peasent farming. | CO2 | 1 |
| 3. | Define soil fertility. | CO1 | 1 |
| 4. | Name the biofertilizer suitable for legume. | CO2 | 1 |
| 5. | What is bio control agent? | CO1 | 1 |
| 6. | Name two cereal crops. | CO1 | 1 |
| 7. | What is integrated weed management? | CO2 | 1 |
| 8. | What is a manure? | CO1 | 1 |
| 9. | Give example for mobile and immobile nutrients in soil. | CO2 | 1 |
| 10. | Define weed. | CO1 | 1 |
| 11. | Name two beneficial weeds. | CO1 | 1 |
| 12. | What is ITK? | CO1 | 1 |
| 13. | List out two International Agricultural Research Centres. | CO2 | 1 |
| 14. | What is green revolution? | CO2 | 1 |
| 15. | Enlist two non edible oil cakes. | CO2 | 1 |
| 16. | Write the formula for harvest index. | CO2 | 1 |
| 17. | Define growth. | CO2 | 1 |
| 18. | List out the edaphic factors. | CO2 | 1 |
| 19. | Name a text book for this course. | CO1 | 1 |
| 20. | What is the importance of nitrogen in crop production? | CO1 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Differentiate between green manuring and green leaf manuring with examples. | CO1 | 5 |
| 22. | Outline Classification of crops based on antogy with examples. | CO1 | 5 |
| 23. | Write Arnon criteria of essentiality. | CO2 | 5 |
| 24. | List the roles of phospheros and potassium in crop plant and their deficiency symptoms. | CO3 | 5 |
| 25. | Draw the growth curve and write its importance. | CO1 | 5 |
| 26. | Differentiate between intercropping and mixed cropping with examples. | CO2 | 5 |
| 27. | What is allelopathy? Give examples. | CO2 | 5 |
| 28. | Enlist the quality of seed and seed treatment. | CO1 | 5 |
| 29. | Define drainage and its importance. | CO1 | 5 |
| 30. | What is crop geometry? Write its importance. | CO3 | 5 |
| 31. | Calculate the plant population with the following data:   1. Rice 20 x 10 cm. 2. maize 60 x 30 cm. | CO1 | 5 |
| 32. | Write down any five climatic factors. | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Caculate the quantity of fertilizer through DAP, urea and Muriate of potash for 150:50:50 kg NPK / ha. | CO3 | 8 |
| b. | What is legume effect? Explain with example. | CO1 | 7 |
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| 34. | a. | Enlist the different methods of sowing / planting with its advantages and disadvantages. | CO2 | 8 |
| b. | Write the objectives of tillage. | CO1 | 7 |
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| 35. | a. | What is a fertilizer? Enlist the differences between manures and fertilizer. | CO1 | 8 |
| b. | Give two examples of mobile and immobile nutrients in plants. | CO2 | 7 |