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**End Semester Examination – Nov/Dec– 2018**

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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(20X1=20 MARKS)** | | |
| 1. | Define Agronomy. | CO1 | 1 |
| 2. | Define crop rotation. | CO1 | 1 |
| 3. | Write the uses of growth analysis. | CO2 | 1 |
| 4. | Recall cropping system and cropping pattern. | CO1 | 1 |
| 5. | What is tillage and tilth. | CO2 | 1 |
| 6. | Define crop geometry. | CO1 | 1 |
| 7. | What is a weed? | CO3 | 1 |
| 8. | Define biofertilizers. | CO3 | 1 |
| 9. | What is allelopathy? | CO3 | 1 |
| 10. | Define growth. | CO2 | 1 |
| 11. | Define plant ideotype. | CO1 | 1 |
| 12. | List out macro nutrients and micro nutrients? | CO1 | 1 |
| 13. | Define vermicompost. | CO2 | 1 |
| 14. | Write the criteria for a essentiality of nutrients. | CO2 | 1 |
| 15. | Define manures and fertilizers. | CO2 | 1 |
| 16. | Discuss minimum tillage. | CO1 | 1 |
| 17. | What are the noxious weeds? | CO3 | 1 |
| 18. | Define drilling and dibbling. | CO3 | 1 |
| 19. | Define Integrated Weed Management. | CO3 | 1 |
| 20. | What is Nutrient Use Efficiency? | CO2 | 1 |

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| **PART B(10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Explain about the biochemical process of herbicides in plant tissues. | CO1 | 5 |
| 22. | Write about the botanical classification of crops in detail. | CO1 | 5 |
| 23. | Write in detail about the Integrated Nutrient Management . | CO2 | 5 |
| 24. | Elaborately discuss about the factors affecting plant density. | CO2 | 5 |
| 25. | Define organic manures. Write about the classification of organic manures. | CO1 | 5 |
| 26. | Explain the growth analysis of CGR, RGR, NAR and LAI. | CO1 | 5 |
| 27. | Elaborately explain the methods of herbicide and fertilizer application. | CO1 | 5 |
| 28. | Write about the post harvest operations. | CO2 | 5 |
| 29. | Explain the principles of plant distribution. | CO2 | 5 |
| 30. | Elaborately discuss the major cropping systems followed in India. | CO1 | 5 |
| 31. | Explain the absorption and translocation of herbicides in plant system. | CO2 | 5 |
| 32. | Write the classification of weeds. | CO3 | 5 |

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|  | **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | |
| 33. | a. | Elaborately discuss the harvesting techniques adopted for cereals and pulses. | CO1 | 8 |
| b. | Explain the marketing and minimum support prices of major crops. | CO1 | 7 |
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| 34. | a. | Write elaborately the internal and external factors affecting growth. | CO2 | 8 |
| b. | Explain the modern concepts of tillage. | CO2 | 7 |
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| 35. | a. | Explain the agronomic and seasonal classification of crops based on growth habits. | CO3 | 8 |
| b. | Elaborately discuss the different methods of weed control. | CO3 | 7 |