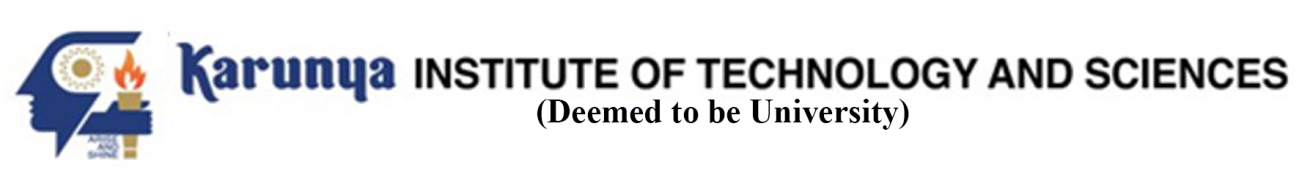
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**End Semester Examination – Apr/May – 2018**

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

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| **Q. No.** | **Questions** | **Course outcome** | **Marks** |
| **PART-A(10X1=10 MARKS)** | |  |  |
| 1. | Define Agronomy? | CO1 | 1 |
| 2. | Define growth? | CO1 | 1 |
| 3. | Define seed? | CO1 | 1 |
| 4. | What is tilth? | CO1 | 1 |
| 5. | Define soil productivity? | CO2 | 1 |
| 6. | What is a fertilizer? | CO2 | 1 |
| 7. | What do you mean by agricultural heritage? | CO3 | 1 |
| 8. | Define integrated nutrient management? | CO2 | 1 |
| 9. | Give any two traditional water lifting devices? | CO3 | 1 |
| 10. | Give any two ancient irrigation structures in India? | CO3 | 1 |

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| **PART B(5 X 3= 15 MARKS)** | | | | |
| 11. | Enumerate the relationship of agronomy with any three disciplines? | CO1 | 3 |
| 12. | Classify the crops based on seasons with examples? | CO1 | 3 |
| 13. | What is manure and enlist the classification of organic manures? | CO2 | 3 |
| 14. | What is biofertilizer and give any two examples | CO2 | 3 |
| 15. | What is harvest index, how it can be improved in cultivated in crops | CO2 | 3 |

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| **PART C(5 X 15= 75 MARKS)** | | | | |
| 16. | a. | Give any five botanical classification with one example | CO1 | 5 |
| b. | Give the classification of cereals and millets | CO1 | 5 |
| c. | Enlist the commercial classification of crops with suitable examples | CO1 | 5 |
| (OR) | | | | |
| 17. | a. | What are the factors affecting the growth of plants? | CO2 | 5 |
| b. | Explain the external factors influencing growth | CO2 | 10 |
| 18. | a. | What is vegetative propagation explain with examples | CO2 | 5 |
| b. | Explain planting density and planting geometry and how it influence the growth and yield of field crops? | CO2 | 10 |
| (OR) | | | | |
| 19. | a. | Enlist the quality of good seeds | CO2 | 8 |
| b. | Explain the methods of sowing/ planting with examples | CO2 | 7 |
| 20. | a. | What are the objectives of tillage? | CO2 | 7 |
| b. | Explain the primary and secondary tillage | CO2 | 8 |
| (OR) | | | | |
| 21. | a. | What off season and on season tillage? | CO2 | 6 |
| b. | Explain primary and secondary tillage implements with diagram | CO2 | 9 |
| 22. | a. | What is soil productivity and how it differs from soil fertility? | CO2 | 5 |
| b. | What are the essential elements for field crops? | CO2 | 5 |
| c. | Give the classification of major nutrients with its functions | CO2 | 5 |
| (OR) | | | | |
| 23. | a. | Define organic manure | CO2 | 3 |
| b. | How organic manures are classified and give the percentage of nutrients in important oil cakes | CO2 | 9 |
| c. | Explain green manure and green leaf manure | CO2 | 3 |
| 24. |  | What is INM? | CO2 | 5 |
|  | What are the important steps to achieve INM? | CO2 | 10 |
| (OR) | | | | |
| 25. |  | Describe the history of agriculture development in India from subsistence to scientific agriculture | CO3 | 15 |