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

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

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| **Code :** | **18AG1015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTRODUCTION TO AGRICULTURE AND HORTICULTURE** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | \_\_\_\_\_\_\_\_\_\_\_\_ is the study of origin of rocks. | CO1 | 1 |
| 2. | \_\_\_\_\_\_\_\_\_\_\_\_is the most common amendment used for reclaiming saline-sodic as well as non-saline sodic soils. | CO2 | 1 |
| 3. | Give an example for water soluble fertilizer. | CO3 | 1 |
| 4. | Central Research Institute for Dryland Agriculture (CRIDA) is located at \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 5. | The \_\_\_\_\_\_\_\_\_\_\_\_rocks are formed by solidification of molten material (magma). | CO1 | 1 |
| 6. | \_\_\_\_\_\_\_\_\_\_ density is also known as true density. | CO2 | 1 |
| 7. | A cell is \_\_\_\_\_\_\_\_\_\_\_\_when it has the capacity and ability to develop into whole organism. | CO2 | 1 |
| 8. | The process which involves conversion of soil nitrate into gaseous nitrogen or nitrous oxide is called \_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 9. | ICAR is \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 10. | \_\_\_\_\_\_\_\_\_\_\_\_ is a growth retardant which inhibits the sprouting of onion and potato. | CO3 | 1 |
| 11. | The fertilizer grade 12-6-6 has a fertilizer ratio of \_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 12. | Plants absorb nutrient iron in the form of \_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 13. | The visible part of spectrum of electromagnetic radiation ranges from wavelength \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ µm (nanometer).  It is also called photosynthetically active radiation. | CO1 | 1 |
| 14. | DAP is a \_\_\_\_\_\_\_\_\_\_\_ fertilizer.. | CO3 | 1 |
| 15. | The minerals having sp. Gravity \_\_\_\_\_\_\_\_\_\_\_\_ are called heavy minerals. | CO1 | 1 |
| 16. | Salinity of irrigation water is measured in terms of \_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 17. | Ion exchange is a \_\_\_\_\_\_\_\_\_\_\_ in which cation and anion exchanged between solid and liquid phase. | CO2 | 1 |
| 18. | \_\_\_\_\_\_\_\_\_\_\_\_ is an amide form of fertilizer. | CO3 | 1 |
| 19. | Humus has three components viz., \_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 20. | Best degreening temperature is \_\_\_\_\_\_\_\_\_\_\_\_. | CO 3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Explain the plant growing structures. | CO2 | 5 |
| 22. | Give a note on nature and origin of soil and soil forming factors. | CO1 | 5 |
| 23. | What is mixed cropping? Mention the types of mixed cropping. | CO1 | 5 |
| 24. | Write a note on igneous rocks. | CO1 | 5 |
| 25. | Discuss zero tillage. | CO1 | 5 |
| 26. | What are the divisions of horticulture? | CO2 | 5 |
| 27. | List out the effects of low temperature in horticultural crops. | CO2 | 5 |
| 28. | What is vermicomposting? Describe the method of vermicomposting. | CO3 | 5 |
| 29. | Describe the classification of agronomic crops with examples. | CO2 | 5 |
| 30. | What are degree days and photothermal units? | CO2 | 5 |
| 31. | Enumerate the factors affecting the storage life of crops. | CO3 | 5 |
| 32. | Discuss photoperiodism. | CO2 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Write a note on classification of fertilizers. Describe the methods of fertilizer application and fertigation. | CO2 | 8 |
| b. | Describe the soil forming process. | CO1 | 7 |
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| 34. | a. | What is the role of plant growth regulators in vegetable and fruit crops?  Give examples. | CO3 | 8 |
| b. | Describe the scope and importance of horticultural crops in Tamil Nadu and India. | CO1 | 7 |
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| 35. | a. | Write in detail on the principles, concepts and scope of agronomy. | CO1 | 7 |
| b. | Explain the propagation methods in horticultural crops with examples. | CO3 | 8 |