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



**End Semester Examination – Nov/Dec - 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **17AG1002** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **AGRICULTURAL MICROBIOLOGY** | **Max. marks :** | **100** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. No.** | **Questions** | **Course outcome** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |  |
| 1. | Who postulated the germ theory? | CO1 | 1 |
| 2. | What is a fungicidal agent? Give one example. | CO1 | 1 |
| 3. | Define fermentation. | CO1 | 1 |
| 4. | Define bioremediation. | CO2 | 1 |
| 5. | Explain denitrification. | CO1 | 1 |
| 6. | What is VAM? | CO2 | 1 |
| 7. | What are green plastics? | CO2 | 1 |
| 8. | Name the inoculants used in yoghurt preparation. | CO2 | 1 |
| 9. | Define potentiometric biosensor. | CO2 | 1 |
| 10. | Define proto cooperation. | CO2 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **PART B(5 X 3= 15 MARKS)** | | |  |
| 11. | Classify different groups of soil microbes. | CO2 | 3 |
| 12. | Discuss Lysogenic cycle. | CO1 | 3 |
| 13. | Explain lac operon concept. | CO1 | 3 |
| 14. | Explain stages of root nodule formation. | CO2 | 3 |
| 15. | Comment on GMOs. | CO1 | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PART C(5 X 15= 75 MARKS)** | | | |  |
| 16. |  | Explain in detail about MPN technique to assay portability of water. | CO2 | 15 |
| (OR) | | | |  |
| 17. |  | Discuss about HIV virus life cycle and AIDS. | CO1 | 15 |
|  |  |  |  |
| 18. |  | Briefly describe protein synthesis in eukaryotes. | CO1 | 15 |
| (OR) | | | |  |
| 19. |  | Explain Carbon cycle with diagram. | CO2 | 15 |
|  |  |  |  |
| 20. |  | Discuss briefly about the mass production of Rhizobium biofertilizer. | CO2 | 15 |
| (OR) | | | |  |
| 21. |  | Discuss briefly about germ theory of diseases. | CO1 | 15 |
|  |  |  |  |
| 22. |  | Classify the microbial agents for control of plant diseases. | CO2 | 15 |
| (OR) | | | |  |
| 23. |  | Explain in detail Recombination in Bacteria. | CO1 | 15 |
|  |  |  |  |
| 24. |  | Explain the biogas production process. | CO2 | 15 |
| (OR) | | | |  |
| 25. |  | Comment on Phyllosphere bacteria. | CO2 | 15 |

ALL THE BEST