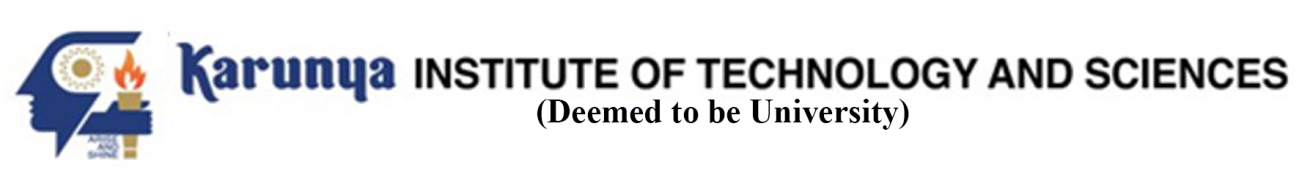
Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_



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

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **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 invented the first microscope? | CO1 | 1 |
| 2. | What is a bactericidal agent? Give one example. | CO1 | 1 |
| 3. | Define glycolysis | CO1 | 1 |
| 4. | Define Plasmid | CO1 | 1 |
| 5. | Explain nitrification process in soil | CO1 | 1 |
| 6. | What is Humus | CO2 | 1 |
| 7. | Name one fungal biofertilizer | CO2 | 1 |
| 8. | Name one viral biopesticide | CO2 | 1 |
| 9. | Who coined the term SCP | CO2 | 1 |
| 10. | Define Bioplastic | CO2 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **PART B(5 X 3= 15 MARKS)** | | |
| 11. | Differentiate Prokaryotes and Eukaryotes | | CO1 | 3 |
| 12. | Outline the functions of Autoclave with neat sketch | | CO1 | 3 |
| 13. | Explain substrate level phosphorylation | | CO1 | 3 |
| 14. | Discuss about biosensors | | CO2 | 3 |
| 15. | Comment on PGPR | | CO2 | 3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PART C(5 X 15= 75 MARKS)** | | | | |  |
| 16. |  | Discuss about the physical and chemical methods of sterilization | CO1 | | 15 |
| (OR) | | | | | |
| 17. |  | Explain Phosphorus and Sulphur cycle with diagram | CO1 | 15 | |
| 18. |  | Explain Spontaneous generation theory | CO1 | 15 | |
| (OR) | | | | | |
| 19. |  | Comment on Electron Transport Chain | CO1 | 15 | |
| 20. |  | Explain in detail the harmful and beneficial interrelationship between microorganisms | CO2 | 15 | |
| (OR) | | | | | |
| 21. |  | Discuss about antibiotic production from microbes | CO2 | 15 | |
| 22. |  | Explain Replica plating and AMES tests. | CO1 | 15 | |
| (OR) | | | | | |
| 23. |  | Explain the process of biological nitrogen fixation | CO2 | 15 | |
| 24. |  | Comment on the principles of food preservation | CO2 | 15 | |
| (OR) | | | | | |
| 25. |  | Explain large scale production of biofertilizers | CO2 | 15 | |