

OCT-2015

B.Sc. Examination March-April - 2015

Semester - V

Paper :Mi-503 - Agricultural Microbiology

Paper Code: 4308

Time: 2:30 Hours

Total Marks: 70

Instructions: (a) Figure to the right indicates total marks of respective question.
(b) Draw neat, clean and labeled diagram wherever necessary.

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| 1.(a) Discuss: Rhizosphere. | 10 |
| 1.(b) Explain in brief pedogenesis. | 04 |
| OR | |
| 1.(a) Explain mycorrhizae & its types. | 10 |
| 1.(b) Write short note on: Phyllosphere. | 04 |
| OR | |
| 2.(a) Describe: Nitrogen cycle. | 10 |
| 2.(b) How can biodeterioration be prevented. | 04 |
| OR | |
| 2.(a) Discuss: Soil erosion. | 10 |
| 2.(b) Explain: Iron cycle. | 04 |
| OR | |
| 3.(a) Explain: The common symptoms of plant diseases. | 10 |
| 3.(b) Write short note on: Citrus canker | 04 |
| OR | |
| 3.(a) Discuss: Red rot of sugarcane. | 10 |
| 3.(b) Write short note on: Transmission of plant diseases. | 04 |
| OR | |
| 4.(a) Explain: The techniques used for enumeration of microbes. | 10 |
| 4.(b) Write a short note on: PGPR. | 04 |
| OR | |
| 4.(a) Define biodeterioration.Explain biodeterioration of wood,paper,& painted surfaces. | 10 |
| 4.(b) Explain: Carbon cycle. | 04 |
| OR | |
| 5.(a) Discuss: Downy mildew of bajra. | 10 |
| 5.(b) Explain: Physical & chemical methods for control of plant diseases. | 04 |
| OR | |
| 5.(a) Discuss: Biofertilizers. | 10 |
| 5.(b) Write short note on: Black stem rust of wheat. | 04 |