

**B.Sc. Examination : April - 2016**

**Semester - V**

**Paper Name: 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.

- 1.(a) Discuss: Types of soil. 10  
1.(b) Write a short note on : Phylosphere. 04

**OR**

- 1.(a) Explain: Phosphate solubilization. 10  
1.(b) Write a short note on : Pedogenesis. 04

- 2.(a) Explain: Symbiotic nitrogen fixation. 10  
2.(b) Explain: Sulfur cycle. 04

**OR**

- 2.(a) Define biodeterioration. Discuss biodeterioration of paper & paints. 10  
2.(b) Explain: Soil erosion by wind. 04

- 3.(a) Explain: Rust of wheat. 10  
3.(b) Explain: Common symptoms of plant diseases. 04

**OR**

- 3.(a) Explain: Downy mildew of bajra. 10  
3.(b) Explain: Transmission of plant diseases by temperature. 04

- 4.(a) Define rhizosphere. Describe any 3 enumeration techniques of rhizosphere soil. 10  
4.(b) Write a short note on: Ectomycorrhizae. 04

**OR**

- 4.(a) Discuss: Carbon cycle. 10  
4.(b) Explain: Soil erosion by deforestation. 04

- 5.(a) Explain: Citrus canker. 10  
5.(b) Write a short note on: Control of plant diseases. 04

**OR**

- 5.(a) Discuss: PGPR. 10  
5.(b) Write a short note on: Biofertilizers. 04