

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU -27
MID SEMESTER TEST – AUGUST 2019
B.Sc. MICROBIOLOGY – V SEMESTER
MB 5216: Agricultural and Environmental Microbiology

Time: 1 hour

Max. Marks: 30

I. Answer any five of the following.

5x2=10 marks

1. List the symptoms and characteristics of the Tobacco mosaic disease.
2. Write a note on Bordeaux mixture.
3. Highlight the importance of microbial leaching and the microbes involved.
4. What are the sources of carbon in nature?
5. Give the importance of crop rotation.
6. Comment on the biological indicators of air pollution.
7. Comment on Methyl Isocyanate pollution.

II. Answer any one of the following:

1x5=05 marks

8. Describe the downy mildew of Grapes.
9. Diagrammatically describe an anaerobic digester.

III. Answer any one of the following:

1x10=10 marks

10. Write notes on the production of *Rhizobium* biofertilizer.
- 11 a. Write a note on air microflora.
b. Write a short note on the diseases of the upper respiratory system.

IV. Answer the following:

1x5=05 marks

12. The impact of human interference has led to accumulation of minerals and elements in water bodies with decreased oxygen levels and increased algal growth. Which element can contribute to this problem? Identify the sources and highlight the beneficial uses of the same.