

Microbiology

Paper Name: MI-304-Soil and Agriculture Microbiology

Paper Code: 8958

Time: 2 Hours

Total Marks: 75

Instructions: 1) Right side indicates the marks of the respective questions.
(2) Draw a neat labelled diagram if necessary.

1.(a) Enlist & describe about methods used for enumeration of soil microflora. 09

1.(b) Write in detail about phylosphere region 09

OR

1.(a) Write on: Nitrogen cycle 09

1.(b) Write notes on biodeterioration of paper, paints and metal. 09

2.(a) Enlist & describe about general symptoms of plant diseases 09

2.(b) Explain disease cycle of Downey mildew of bajra. 09

OR

2.(a) Discuss in detail about biogas production. 09

2.(b) Discuss in detail about bioleaching of ores. 09

3.(a) Enlist & describe about gene transfer methods in plants. 09

3.(b) Write on Transgenic animal. 09

OR

3.(a) Write an assay on Biofertilizer. 09

3.(b) What is transmission of plant diseases? Explain direct transmission of plant diseases. 09

4.(a) Types of soil and pedogenesis. 07

4.(b) Sulfur cycle. 07

4.(c) prevention and control of Angular leaf spot of cotton 07

OR

4.(a) Biosensors of environment 07

4.(b) Current levels of biodiversity 07

4.(c) Bioremediation. 07

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