4. Write notes on : 5

(a) Pure culture methods 5

(b) Plant virus transmission

5. (a) Explain the classification of plant virus. 5

(b) Describe in detail the conjugation process in bacteria. 5

Or

6. (a) Describe the symptoms of virus infection in plants using suitable examples. 5

(b) What are actinomycetes? Describe their economic importance. 3+2=5

7. Write notes on :

(a) Microbial production of citric acid. 5

(b) Microbe yielding antibiotics. 5

Or

8. Write notes on :

(a) Bio-pesticidal microbes. 5

(b) Spoilage of milk products by microbes. 5

9. (a) Describe role of microbes in sulphur cycle. 5

(b) What are plant growth promoting rhizo bacteria? Describe their useful roles. 1+4=5

Or

10. (a) Explain myconhiza. Describe their importance. 3+2=5

(b) Describe microbe used as bio-fertilizers. 5

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UG (CBCS) EVEN SEMESTER EXAMINATION, 2023

EDUCATION (B.Sc. B.Ed.)

BOTANY (HONOURS)

6th Semester

Course No. : BSBH - 601

(Microbiology)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. (a) Describe the characteristic features of different types of prokaryotic micro-organisms. 5

(b) Explain the methods for estimation of microbes. 5

Or

2. (a) Explain bacteria based on mode of nutrition. 5

(b) Describe the physical means to control microorganisms. 5

3. Write notes on :

(a) Bickettsia 5

(b) Bacterial growth curve 5

Or