

AU-306

M.Sc. (Part—I) Semester—II (CBCS Scheme) Examination**BOTANY****(Biology and Diversity of Microbes and Fungi)****Paper—VI**

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) All questions are compulsory.

(2) Draw neat labelled diagrams wherever necessary.

1. Describe in detail the reproduction in bacteria and their economic importance. 16

OR

(A) Explain modes of nutrition in bacteria. 8

(B) Write on any two important bacterial diseases. 8

2. Write on :

(a) Chemical nature of virions. 5

(b) Yellow vein mosaic of bhindi and control. 5

(c) General characteristics of phytoplasma. 6

OR

(d) Natural modes of transmission of viruses. 5

(e) Replication of the viruses. 6

(f) Grassy shoot disease of sugarcane and control. 5

3. Explain :

(g) Role of fungi in medicine. 5

(h) Reproduction in Mucorales. 5

(i) General account of plasmodiophoromycetes. 6

OR

(j) Fungi as a food. 5

(k) Reproduction in Oomycetes. 5

(l) General account of Myxomycotina. 6

4. Write on :

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| (m) General account of Deuteromycotina | 5 |
| (n) Spore stages in Teliomycetes. | 5 |
| (o) Reproductive characters of Plectomycetes. | 6 |

OR

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| (p) Significance of Deuteromycotina. | 5 |
| (q) Reproductive structure in Gasteromycetes. | 5 |
| (r) General account of Hymenomycetes. | 6 |

5. Define Mycorrhiza. Explain in detail Endomycorrhizae and applications of VAM fungi in Agriculture. 16

OR

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| (s) Explain fungi as biological agent. | 8 |
| (t) Discuss heterothallism in fungi. | 8 |