

AQ-894

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

Time—Three Hours]

[Maximum Marks—80

- Note :—** (1) All questions are compulsory.
(2) Draw neat labelled diagrams wherever necessary.

1. Give the detailed account of Archaeobacteria. 16

OR

(A) Write on any two important bacterial diseases of regional crops. 8

(B) Explain sexual reproduction in bacteria. 8

2. Explain :—

(a) Characteristics of Phytoplasma. 5

(b) Structure of Bacteriophage. 5

(c) Replication of Viruses. 6

OR

(d) Two important plant diseases caused by viruses. 5

(e) Transmission of viruses. 5

(f) Chemical nature of viruses. 6

3. Comment on :—

- (h) Role of saprophytic fungi in nature. 5
- (i) General features of Zygomycotina. 5
- (j) Classification of fungi proposed by Ainsworth (1971). 6

OR

- (k) General account of Chytridiales. 5
 - (l) Economic significance of fungi. 5
 - (m) General characters of Myxomycotina. 6
4. Write on :—
- (o) Types of spores in Puccinia. 5
 - (p) Salient features of Gastromycetes. 5
 - (q) Importance of Deuteromycotina. 6

OR

- (r) Types of ascocarps in Ascomycotina. 5
 - (s) General account of smut fungi. 5
 - (t) General account of Deuteromycotina. 6
5. Give the detailed account of mycorrhiza. 16

OR

- (v) Fungi as biological agent in biological control. 8
- (w) Heterothalism in fungi. 8