

M.Sc. (Part-II) Semester-III (CBCS) Examination

BOTANY

(Applied Mycology-I)

Paper-XI (Elective)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory and carry equal marks.

(2) Illustrate your answers with suitable examples and diagrams.

1. Describe :
 - (a) Rhizosphere mycoflora and its importance. 5
 - (b) Phosphorus uptake of AM fungi. 5
 - (c) Structure of ectotrophic mycorrhizae. 6

OR

 - (d) Phyllosphere mycoflora and its importance. 5
 - (e) Role of VAM fungi in Agriculture. 5
 - (f) Structure of endotrophic mycorrhizae. 6
2. Explain diseases caused by dermatophytic fungi to birds and animals. 16

OR

Give general account of human diseases caused by dermatophytes. 16
3. Write on :
 - (g) Structure and applications of Griseofulvin. 5
 - (h) Production of Lactic acid. 5
 - (i) Structure and functions of penicillin. 6

OR

 - (j) Structure of cephalosporin. 5
 - (k) Applications of citric acid. 5
 - (l) Industrial production of penicillin. 6
4. Write on :
 - (m) General account of aflatoxins. 5
 - (n) Applications of cellulases. 5
 - (o) Types and importance of phytoalexins. 6

OR

 - (p) Importance of aflatoxins. 5
 - (q) Production of Amylases. 5
 - (r) Types and importance of mycotoxins. 6
5. Discuss in detail the role of Fungi in medicine, fermented food and in cheese production. 16

OR

 - (s) Role of microorganisms in biodegradation of organic wastes. 8
 - (t) Explain biodeterioration of non-cellulosic materials. 8

