

[Time: 2½ Hours]

[Marks:60]

Please check whether you have got the right question paper.

- N.B:**
1. All questions are **compulsory**
 2. Draw **neat and labelled diagrams** wherever necessary.
 3. **Figures** to the **right** indicate **full marks**.

- Q.1 Discuss the contributions of the following mycologists and plant pathologists. 12
- i) M. J. Thirumalachar
 - ii) B. Mundkur
- OR
- Q.1 Given an account of the influence of the soil moisture and temperature on the distribution of mycoflora in soil. 12
- Q.2 Give an account of class Ascomycetae as described by G. M. Smith. 12
- OR
- Q.2 Describe the sexual reproduction in *Saprolegnia*. Add a note on its classification. 12
- Q.3 Discuss the influence of iron and folic acid on the growth of fungi. 12
- OR
- Q.3 Give an account of properties and applications of aflatoxins. 12
- Q.4 Discuss the use of *Saccharomyces* in the study of fungal genetics. 12
- OR
- Q.4 Describe the characteristics of copro-philous fungi and their distribution. 12
- Q.5 Write short notes on **any three**
- 1 Structure of peridiole of *Cyathus*
 - 2 Sesquiterpenes
 - 3 Characteristic of hymenomycetes
 - 4 Characteristic of fresh water fungi
 - 5 Role of phosphorus in the nutrition of fungi
 - 6 Genetic resistance to rust disease.