

B.Sc. Part III (Honours) Examination - 2021
Subject: Botany
Paper - VII (Old syllabus)

Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.

Q-A: Answer any ten from the following questions:

5 X 10 = 50

1. Briefly describe the structure of Gram Negative bacterial cell wall.
2. Describe the structure of endospore with labelled diagram.
3. Briefly describe the process of $F^+ \times F^-$ conjugation.
4. Mention the active principles, uses and adulterants of *Adhatoda* leaf.
5. Describe the plant succession initiated in an open pond.
6. Write a short note on different types of simple apertures found on pollen grains.
7. Briefly describe the contrivances for self pollination.
8. Describe the concept of energy flow through different trophic levels of ecosystem.
9. Mention the characteristic features of heliophytes.
10. Describe briefly the steps of black tea processing.
11. What are the causes of water pollution?
12. Mention the steps of a typical dicot embryo development.