



B.Sc. (Semester – VI) Examination, April/May 2019

BOTANY

Paper - XVI : Economic and Applied Botany

Duration : 2 Hours

Max. Marks : 80

- Instructions :**
- i) **All questions are compulsory, however internal choice is available.**
 - ii) **Briefly answer sub-questions in Question 1 and Question 2.**
 - iii) **Figures to the right indicate maximum marks to the questions/sub-questions.**
 - iv) **Draw neat labelled diagram wherever necessary.**

1. Answer **any four** of the following : 16
- i) What is Ethnobotany ? State its role in bioprospecting.
 - ii) Explain the method of cultivation of Anthuriums.
 - iii) Give the medicinal uses of *Garcinia indica* and *Tinospora cordifolia*.
 - iv) Discuss the climatic requirements of Wheat and mention its uses.
 - v) Define Silviculture. Add a note on its importance.
 - vi) Give the botanical name of Cocoa. Mention the part used and its uses.
2. Answer **any four** of the following : 16
- a) Write a note on properties and uses of Jute fibre.
 - b) Mention the chief chemical constituents of *Holarrhena antidysentrica* and *Boerhaavia diffusa*.
 - c) Define Apiculture. Write a note on its applications.
 - d) Describe briefly any four styles of Bonsai.
 - e) Give the scientific names of any four Timber plants of Goa.
 - f) Mention any four uses of Coconut and Sugarcane.
3. A) Give the scientific name, climatic requirements and economic importance of Black gram and Maize. 6

OR

- A) Give a detailed account of climatic requirements for the cultivation of Grapes and Turmeric. Mention their botanical names and uses.
- B) What are the climatic conditions required for the cultivation of Yams and Capsicum ? Write their botanical names and uses.



4. A) Describe the layout of a kitchen garden. Mention any four plants used in kitchen gardening. 6

OR

A) What is a Rock garden ? How will you plan a Rock garden ?

B) Write a note on Horticulture crops of Goa. 6

5. A) With reference to Tea and Groundnut, give the botanical name, climatic requirements and economic importance. 6

OR

A) What are the climatic conditions required for the cultivation of Bajra and Sesame ? Mention their botanical names and uses.

B) Write the plant part used and economic importance of :

i) Eucalyptus

ii) Sweet potato

iii) *Bixa*. 6

6. A) Describe any four types of Stem Cuttings. 6

OR

A) Give a detailed account on Sericulture.

B) What is Agroforestry ? Comment on its importance. 6