

U.G. 4th Semester Examination - 2020

BOTANY

[HONOURS]

Course Code : BOTH-CC-T-10

Economic Botany and Pharmacognosy

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all the questions.

1. Answer any **five** questions: 2×5=10
- i) Name two improved varieties of rice.
 - ii) Mention one cultivated and one wild species of sugarcane.
 - iii) The natural habitat of tea is tree but under cultivation it is shrub. How is it so?
 - iv) What are essential oils? How are they differ from fatty oils?
 - v) Write the scientific name of cotton plant and from where cotton fibre is obtained.

- vi) Name two plants, one yielding drugs from leaves and other from seeds.
- vii) What is adulterant? Give an example.
- viii) Name a drug and its source which is used in ophthalmology to dilate pupil.

2. Answer any **two** questions from the following: 5×2=10

- i) Write the origin and uses of chick pea and pigeon pea.
- ii) Write in brief the various steps in processing of tea.
- iii) Explain how the latex is processed to get rubber.
- iv) What is organoleptic study of drugs? Name two active constituents of *Rauwolfia serpentina* and its adulterants. 1+2+2

3. Answer any **two** questions from the following: 10×2=20

- i) Describe the various centres of the origin of cultivated plants as stated by Vavilov.
- ii) Mention the scientific names, plant parts used and economic importance of coriander, cardamon, saffron, clove and black pepper.

2×5

- iii) Write the physical and chemical evaluation of drugs. Discuss about the crude and commercial drugs with examples. 6+4
- iv) Write the chemical constituents and adulterants of *Swertia chirata*, *Zingiber officinale*, *Aconitum heterophyllum*, *Aloe barbadensis* and *Withania somnifera*. 2×5
-