

U.G. 4th Semester Examination - 2024**BOTANY****[HONOURS]****Course Code : BOT-H-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.*

1. Answer any five questions: 2×5=10
- a) What is Ratooning?
 - b) Mention the morphological part of the clove used as a spice.
 - c) Name an adulterant of black pepper.
 - d) Write down name of two timber plants found in West Bengal.
 - e) Name a medicinally important phytocompound of *Dioscorea alata*.
 - f) Which part of potato is used for propagation and season for cultivation in our state.
 - g) Name any two oil seed crop.
 - h) State the importance of bagasse.

[Turn Over]

2. Answer any two of the following questions:

5×2=10

- a) Briefly describe the processing steps for the extraction of jute fibre and mention the problem facing by the growers. 3+2
- b) Write down the family name, two medicinal uses, and two active constituents of *Andrographis paniculata*. 1+2+2
- c) Define pharmacognosy. Mention two methods each for physical and chemical evaluation of drugs. Distinguish between organized and unorganized crude drugs. 1+2+2
- d) Define spice. Write down the family name and economic importance of cumin and saffron.

1+2+2

3. Answer any two of the following questions:

10×2=20

- a) Write down the origin, plant morphology, and uses of the following legumes: 5+5
 - i) Chickpea
 - ii) Pigeon pea
- b) What is the family status of sugarcane. Briefly describe the processing of sugar from sugarcane and economic importance of sugarcane. 4+4+2

4+4+2

c) Write down the morphological nature, extraction, and uses of the following fibers:

5+5

- i) Jute
- ii) Coir
- d) Write down the source, histology, uses and adulterants of the following drug plants:

5+5

- i) *Atropa belladonna*
- ii) *Ephedra gerardiana*