

Bankura University
B. Sc 6th Semester (Program) Examination, 2021
Subject: Botany

Course ID: 61318

Course Code: SPBOT/601/DSE-1B

Course Title: Economic Botany & Biotechnology

Full Marks: 25

Time: 1 h 15 min

The figures in the margin indicate full marks.

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

UNIT I

1. Answer any five questions from the following : **1×5=5**

- a. What is the botanical name of black pepper?
- b. Define explants.
- c. Name one fibre yielding plant.
- d. What is totipotency?
- e. State two uses of clove oil.
- f. What is the full name of RFLP?
- g. Define micropropagation.
- h. Name two hormones used in tissue culture media?

UNIT II

2. Give brief answers to any two of the following: **5×2=10**

- a. Describe the embryo culture briefly.
- b. State the general description of cotton with special reference to its botanical name and uses. 3+1+1=5
- c) What is micropropagation. Briefly describe the application of micropropagation. 2+3=5
- d) Describe briefly the application of PCR.

UNIT III

3. Answer any one question from the following : **1×10=10**

- a. What is a blotting? Describe the process of Northern Blotting. (2+8)
- b. What is CTC tea? Describe the processing of tea briefly. (2+8)