



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2020

(Under CBCS Pattern)

Semester - III

Subject: BOTANY

Paper : GE 3-T & GE 3-P

(Economic Botany and Plant Biotechnology)

Full Marks : 60 (Theory - 40 + Practical - 20)

Time : 3 Hours

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

The figures in the margin indicate full marks.

GE 3-T [Theory]

Answer any **two** questions from the following :

$2 \times 20 = 40$

1.
 - i. Discuss on the Vavilov's centres of origin.
 - ii. Write different uses of wheat.
 - iii. Write the scientific name and uses of cotton. 8+6+6
2.
 - i. What is somatic embryo?
 - ii. Write the process and application of embryo culture.
 - iii. Discuss the process and applications of PCR. 3+8+9

3. i. Write the scientific name of black pepper and mention its uses.
ii. Write the morphology and uses of soybean.
iii. Write a note on micropropagation. 6+6+8
4. i. Write briefly on endosperm culture and its application.
ii. Discuss about the processing of tea.
iii. Give brief idea about ELISA and mention its applications 8+5+7

GE 3-P [Practical]

Answer any *one* questions from the following : $1 \times 20 = 20$

1. i. Draw and describe the morphology of wheat plant.
ii. Draw and describe the morphology of cotton. 10+10
2. i. Briefly describe the micro chemical tests of fats.
ii. Draw and describe the anther culture. 10+10
3. i. Draw and discuss the morphology of clove.
ii. Briefly discuss the principle and function of an autoclave. 10+10
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