WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2021-22

BOTACOR06T-Botany (CC6)

Economic Botany

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

1. Answer **all** the following questions: 1×6 = 6

   (a) Write the Vavilov's concept for centre of origin.

   (b) Write two uses of millets.

   (c) What part of clove plant is used as spice?

   (d) Give an example of introduced plant.

   (e) What is meant by maceration process?

   (f) Which is the commercial fibre of jute?

2. Answer any **eight** of the following questions: 3×8 = 24

   (a) Explain the origin and two uses of pigeon pea.   2+1

   (b) Describe briefly the processing of cane sugar.   3

   (c) How is linseed is extracted?   3

   (d) Draw a schematic diagram of classification of fats and oils.   3

   (e) Write the therapeutic uses of cinchona and cannabis.   3

   (f) Write the active constituents and health hazards of *Digitalis* and *Papaver*. $1\frac{1}{2} + 1\frac{1}{2}$

   (g) What do you understand by genetic diversity loss?   3

   (h) Write the scientific names and uses of Soybean and Chick pea. $1\frac{1}{2} + 1\frac{1}{2}$

   (i) Differentiate spices and condiments with two examples for each.   2+1

   (j) Write scientific name and families for Tobacco and Potato. $1\frac{1}{2} + 1\frac{1}{2}$

   (k) Distinguish between natural fibres and synthetic fibres giving one example for each.   2+1

   (l) Give a brief idea on extraction of cotton.   3

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

    (a) Explain how crop domestication is responsible for loss of genetic diversity of Plants. What are the centres of 'old world' and 'new world' according to Vavilov. 3+2

    (b) Describe in brief the method of extraction of para-rubber. Write two of its uses. 4+1

    (c) What exactly are coffee beans? Write a short note on processing of coffee. 1+4

    N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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