



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2019

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 as far as practicable
All symbols are of usual significance.*

1. Answer **all** the following questions: 1×6 = 6
 - (a) Write the botanical name of Sal.
 - (b) Mention use of the eyes of Potato.
 - (c) Rubber is obtained from which part of rubber tree?
 - (d) Give the scientific name of a plant rich in caffeine content.
 - (e) Write the botanical name of chickpea.
 - (f) Mention the source of digitoxin.

2. Answer any **eight** of the following questions: 3×8 = 24
 - (a) What do you mean by center of origin of crops? 3
 - (b) How would you compare volatile oil with fixed oil? Give an example of each. $2 + \frac{1}{2} + \frac{1}{2} = 3$
 - (c) How are leguminous plants beneficial to the environment? Describe with example. 3
 - (d) Why are millets called lazy mans' crop or poor mans' cereal? Mention the use of two main cereals. 1+2 = 3
 - (e) Mention the therapeutic uses of *Digitalis* and *Papaver*. 3
 - (f) Write in brief about the health hazards of Tobacco. 3
 - (g) Write down the botanical names and the health implications of groundnut and linseed. $1\frac{1}{2} + 1\frac{1}{2} = 3$
 - (h) Mention the scientific name, family, part used and economic importance of mustard plant or soyabean. 3
 - (i) Name the plant parts used and the uses of the following: 3
Saffron, Clove and Black pepper.
 - (j) What is latex? Write briefly how latex of rubber yielding plant is processed to produce natural rubber. 1+2=3
 - (k) Mention in brief regarding the uses of *Santalum* and *Eucalyptus* oil. 3
 - (l) Briefly describe the process of retting in jute. 3

3. Answer any *two* of the following questions: $5 \times 2 = 10$

(a) Give the family name, part used, active constituent and medicinal use of the following plants: $2\frac{1}{2} + 2\frac{1}{2} = 5$

(i) *Cinchona*

(ii) *Cannabis*

OR

(i) *Digitalis*

(ii) *Papaver*

(b) Explain the importance of crop domestication to man. How does crop domestication influences the loss of genetic diversity of plants? $2+3 = 5$

(c) Write briefly on Vavilov's concept of centres of origin of crops with examples of the major centres as outlined by Vavilov. 5

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