

B.Sc. 3rd Semester (Honours) Examination, 2018 (CBCS)

Subject : Botany

Paper : CC-VII

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* of the following: 2×5=10
- (a) What is meant by 'Centre of Origin' of a crop plant?
 - (b) Explain the term Domestication.
 - (c) Write the Botanical name and family of linseed and soybean.
 - (d) Name two active principles of coffee.
 - (e) How can you distinguish cotton fibres from jute fibres.
 - (f) Name two rubber yielding plants and state their families.
 - (g) Name two principal glycosides of *Digitalis* (leaf).
 - (h) Name two uses of chick pea cultivated in West Bengal.
2. Answer *any two* of the following: 5×2=10
- (a) Briefly discuss about the processing of rubber. Mention its uses. 3+2=5
 - (b) Name the plant and family from which quinine is extracted. Mention two important alkaloids of this plant and state their medicinal uses. 1+2+2=5
 - (c) Name the family and mention the plant part used of the following:
Fennel, Saffron, Clove and Black pepper. Write the medicinal use of clove. 4+1=5
 - (d) Prepare a general account of teak as an economically important plant. Why is its wood durable? 4+1=5
3. Answer *any two* of the following: 10×2=20
- (a) Mention four commercial varieties of tea. How is 'black tea' processed? How does 'black tea' differ from 'green tea'? 2+6+2=10
 - (b) Give the botanical name and family of one important jute variety cultivated in India. Describe the steps adopted for extraction of jute fibre. How white jute differs from tossa jute? 2+6+2=10
 - (c) Describe the morphology and processing of sugarcane. Mention the propagules of sugarcane and potato. 8+2=10
 - (d) Briefly discuss about cultivation of rice. Name two varieties of rice cultivated in West Bengal. 8+2=10