

2022

BOTANY — HONOURS

MURALIDHAR GIRLS' COLLEGE
LIBRARY

Paper : CC-9

Full Marks : 50

*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
- Name two crop species of Indian Centre of origin of cultivated plants.
 - Name the alkaloids obtained from tea and tobacco.
 - What is 'plucking round'?
 - What is introgression of wheat?
 - What is the utility of fractional distillation?
 - Write scientific names and families of two timber yielding plants.
 - Write differences between spices and condiments.
 - Write two cotton producing species of *Gossypium* in India.
2. Answer **any two** of the following :
- Describe in brief the processing of CTC tea. 5
 - Discuss in brief the significance of legumes in human nutrition and ecosystem. 2½+2½
 - Write the family name, active compounds and therapeutic uses of *Digitalis* sp. 1+2+2
 - Write scientific name, fruit morphology and health hazards of poppy plant. 1+3+1
3. Answer **any three** questions from the following :
- Comment on the origin of wheat. Schematically represent the development of 'Triticale'. Mention the uses of different parts of rice plant. 4+3+3
 - Write the scientific names of two cultivable Indian species of jute. Give a brief account of the separation of jute fibre by retting. Comment on ginning and baling process for marketing of cotton. 2+4+(2+2)
 - Write the scientific name, family and uses of the following timber yielding plants :
Sal and Teak.
Mention the forest types in which these plants are found in West Bengal. [(1+1+2)×2]+2
 - Define crop domestication and diversification. Write the different steps involved in the evolution of new crops/variety. 2+2+6
 - Give a comparative account on the physicochemical properties of Mustard, Soybean and Coconut oils. Mention their health implications. Define 'PUFA'. 6+2+2