X(4th Sm.)-Botany-II/CC-9/CBCS

2×5

5

2022

BOTANY — HONOURS

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 :

- (a) Name two crop species of Indian Centre of origin of cultivated plants.
- (b) Name the alkaloids obtained from tea and tobacco.
- (c) What is 'plucking round'?
- (d) What is introgression of wheat?
- (e) What is the utility of fractional distillation?
- (f) Write scientific names and families of two timber yielding plants.
- (g) Write differences between spices and condiments.
- (h) Write two cotton producing species of Gossypium in India.

2. Answer any two of the following :

- (a) Describe in brief the processing of CTC tea.
- (b) Discuss in brief the significance of legumes in human nutrition and ecosystem. $2\frac{1}{2}+2\frac{1}{2}$
- (c) Write the family name, active compounds and therapeutic uses of *Digitalis* sp. 1+2+2
- (d) Write scientific name, fruit morphology and health hazards of poppy plant. 1+3+1

3. Answer any three questions from the following :

- (a) Comment on the origin of wheat. Schematically represent the development of 'Triticale'. Mention the uses of different parts of rice plant.
- (b) 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)
- (c) 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
- (d) Define crop domestication and diversification. Write the different steps involved in the evolution of new crops/variety.
- (e) Give a comparative account on the physicochemical properties of Mustard, Soybean and Coconut oils. Mention their health implications. Define 'PUFA'. 6+2+2