



C20-CHST-405

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**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2023**

DCHST – FOURTH SEMESTER EXAMINATION

SUGARCANE AGRICULTURE AND SUGAR CHEMISTRY

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Write any four drought resistant varieties.
2. What are weeds? Write preventive methods adopted.
3. Write the importance of land preparation in cultivation.
4. What is an Eksali crop?
5. Write about soil sterilants.
6. State the advantages of crop rotation.
7. Write one method of judging maturity of sugarcane.
8. State the disadvantages of ratoon crop.
9. Write the ideal climatic conditions for sugarcane.
10. Give the general schedule followed for plantation of sugarcane.

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Write a short note on sugarcane mulching.

(OR)

(b) Write the germination in sugarcane.

12. (a) Explain the selection of seed material and its preparation.

(OR)

(b) Explain the nitrogen deficiency symptoms and their requirement in cultivation of sugarcane.

13. (a) Explain the symptoms and control measures of red rot.

(OR)

(b) Write the symptoms and control measures of grassy shoot disease.

14. (a) Draw a neat sketch of sugarcane plant and show its various parts.

(OR)

(b) Describe the preventive methods adopted in lodging of sugarcane.

15. (a) Write the symptoms and control measures of the pests borer.

(OR)

(b) Write the symptoms and control measures of melay bug.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Define irrigation and explain various methods adopted for sugarcane cultivation.

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