



C20-CHST-506

7634

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—2023

DCHST – FIFTH SEMESTER EXAMINATION

SUGAR EQUIPMENT DRAWING AND PLANT LAYOUT

Time : 3 Hours]

[Total Marks : 60

PART—A

4×5=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **four** marks.
(3) Draw the sketches to a suitable scale neatly.

1. Draw the free hand sketches of the following symbols :
 - (a) Autoclave
 - (b) Evaporator
2. Draw the symbols for following units :
 - (a) Ejector
 - (b) Four-way cock
3. Draw the free hand sketches of the following symbols :
 - (a) Change of pipe size
 - (b) Centrifugal blower
4. State the various types of plant layout
5. Draw the free sketch of simple imbibition process used for white sugar manufacture having 5 mills.

PART—B

20×2=40

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **twenty** marks.
(3) Assume the missing data if necessary.
(4) Draw the sketches to a suitable scale neatly.

6. (a) Draw the sectional elevation of a barometric condenser suitable for a 1250 TCD plant.

(OR)

- (b) Draw a suitable scale for automatic juice weighing scale.

7. (a) Draw the detailed drawing of juice sulphitation unit of NSI design.

(OR)

- (b) Draw the detailed drawing of vacuum pan.

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