



C20-CHST-505

7633

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

DCHST – FIFTH SEMESTER EXAMINATION

BYPRODUCTS AND POLLUTION CONTROL

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. Differentiate between product and byproduct with example.
2. Write the characteristics of filter cake.
3. Define press mud.
4. Write the composition of crude wax.
5. Explain non-alcoholic fermentation of molasses.
6. Write the uses of ethanol.
7. Define Biosphere.
8. Define pollutant.
9. Write the characteristics of wastewater.
10. List out the various methods to control water pollution.

- 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) Explain the uses of bagasse.

(OR)

(b) Explain the production of furfural from bagasse.

12. (a) Explain the composition of filter cake.

(OR)

(b) Explain in detail the extraction of wax by two-solvent method from filter cake.

13. (a) Explain the manufacturing of ethyl alcohol from molasses.

(OR)

(b) Explain handling and storage of molasses.

14. (a) Explain the various effects of air pollution on environment.

(OR)

(b) Explain about the atmosphere and its significance.

15. (a) Explain the various sources of wastewater from sugar industry.

(OR)

(b) Explain the effects of wastewater containing toxic substances and microorganisms in receiving streams.

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. Explain the treatment of wastewater from chemical industry.

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