



C20-CHOT-404

7483

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

DCHOT – FOURTH SEMESTER EXAMINATION

TECHNOLOGY OF VEGETABLE OILS AND FATS—II

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. List out the requirements of a best storage of oil seeds.
2. What is a scaled down sample?
3. Write the demerits of various solvents used in solvent extraction.
4. List out the solvents used in the solvent extraction of vegetable oils from seeds.
5. Mention the reasons for formation of gums in oil and fats.
6. List out various processes available for production of hydrogen gas.
7. What is winterization of oils?
8. Write the composition of peanut butter.
9. What are the advantages of palm oil and palm Kernel oil in the manufacture of margarines?
10. List out the superior qualities of biodiesel.

- 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. What are various factors affect the solvent extraction process?

(OR)

Draw a neat sketch of vertical basket type extractor and explain the working of it.

12. Distinguish the mode of operation between horizontal type extractor and rotary type extractor.

(OR)

Explain molecular diffusion theory of oil extraction and list out the types of solvent extractors.

13. Describe the continuous alkali refining of oils with a neat flowchart.

(OR)

Draw a neat sketch of continuous deodorizer and indicate the parts.

14. Describe the hydrogenation of vegetable oil with a neat flowchart.

(OR)

Draw a neat sketch of conventional type hydrogenator for vegetable oil hydrogenation and indicate the parts.

15. Describe the peanut butter manufacturing process with a neat flow sheet.

(OR)

Describe the steps in the manufacture of margarine and also mention the uses of margarine.

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. The biodiesel is superior to petrodiesel with respect to environmental aspects. Do you agree with the above statement? Give reasons.

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