BFTFTC 282

Choice Based Credit System IV Semester B.Sc. (Food Technology) Degree Examination, September 2022
(2020 – 21 Batch Onwards)
TECHNOLOGY OF FAT AND OIL PRODUCTS

Time : 3 Hours   Max. Marks : 80

PART – A

1. Answer in brief on **any ten** of the following :   **(10×2=20)**
   a) Antioxidants.
   b) Examples of plastic fats.
   c) Tempering.
   d) Polyglycoesters.
   e) Glycerolysis.
   f) Coating.
   g) Rancidity.
   h) Breeding.
   i) Mayonnaise.
   j) Fat substitutes.
   k) Lecithins.
   l) Rendering.

PART – B

Answer **any four** of the following choosing **one full** question from **each** Unit.

(4×15=60)

Unit – 1

2. a) What do you mean by edible fat ?
   b) List out modern fat and oil product.
   c) Write in detail about chemical and functional properties of fats and oils.

(3+5+7=15)

OR

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3. a) Explain reversion of fat.
   b) Importance of fats in human nutrition.
   c) Give a detail account on global status of edible fat and oil industry.

   (4+4+7=15)

Unit – 2

4. a) What are the basic processing methods of fats and oils ?
   b) Describe supercritical fluid extraction.
   c) Explain in detail about modification of fats and oils.   **(4+4+7=15)**

   OR

5. a) Write a brief note on crystallization of oils and fats.
   b) Explain hydrogenation with example.
   c) Give a detailed discussion on oil and fat extraction.   **(4+4+7=15)**

Unit – 3

6. a) What are the application of plastic fat in confectionery ?
   b) Mention quality standards of fats and oils.
   c) Write in detail about chemical adjuncts.   **(4+4+7=15)**

   OR

7. a) Write about cocoa butter and its alternatives.
   b) Explain the application of plastic fat in bakery.
   c) Write about antioxidants and explain its mechanism of application.   **(4+4+7=15)**

Unit – 4

8. a) What are the different types of shortenings ?
   b) Write about fat substitutes.
   c) Elaborate on the margarine manufacturing process and its use.

   (3+5+7=15)

   OR

9. a) Write briefly on the storage of fats and oils.
   b) Write a briefly on shortening.
   c) Write in detail about imitation dairy products.   **(4+4+7=15)**

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