STUDENT'S ANSWER-SCRIPT SUBMISSION LINK



FNTADSE05T 16/08/2021 10.00 AM to 12.00 Noon

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WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

FNTADSE05T-FOOD AND NUTRITION (DSE3/4)

DAIRY TECHNOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

Answer any *four* questions from the following

 $10 \times 4 = 40$

- 1. What is auto-oxidation? What are the factors affecting the auto-oxidation in milk? 2+3+2+3 Write the names of two methods of measuring auto-oxidation of lipid. What are the preventive measures of auto-oxidation in milk?
- 2. Mention the ranges of following physical properties of milk:

 $1 \times 10 = 10$

- (i) Freezing point
- (ii) Boiling point
- (iii) Acidity
- (iv) pH
- (v) Surface tension
- (vi) Viscosity
- (vii) Specific gravity
- (viii) Density
- (ix) Refractive index and
- (x) Water as component.
- 3. What is lactose? How does the alpha and beta forms of lactose differ? Give two examples of lactose free milk product.
- 4. Differentiate between:

4+3+3

- (i) casein and serum protein
- (ii) casein and whey protein.

Discuss about the different types of casein. What are uses of casein?

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- 5. State the factors affecting melting point, boiling point and solubility of milk fat. What do you mean by the term 'fractionation of protein'?
 - 6+4
- 6. State the importance of enzymes alkaline phosphatase and lipase in milk. Discuss about the amphoteric nature of milk protein.
- 7. Write short notes on:

 $5 \times 2 = 10$

- (i) Status of Dairy industry in India
- (ii) Significances of lactose in dairy industry.
- 8. Write in brief about Saponification value, Iodine value, RM value, Polenske value, $2\times5=10$ Peroxide value of milk fat.
 - **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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