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Exam. Code : 107703 Subject Code : 1889

Bachelor of Food Science & Technology (Hons.) 3rd Sem. FST-302 FLUID MILK PROCESSING

Time Allowed—3 Hours] [Maximum Marks—50

Note :— Attempt any 5 out of 8. All questions carry equal marks.

- 1. (a) List the major and minor constituents of milk. Give the average composition of cow milk.
 - (b) Discuss some of the important physical properties of milk and their significance.
- 2. (a) Briefly describe the different proteins present in milk. What is their nutritional significance ?
 - (b) Mention the factors on which stability of milk proteins depend.
- 3. (a) What is double toned milk ? How does it differ from standard milk ?
 - (b) With the help of a labeled flow diagram describe its manufacture.
- 4. (a) What is the purpose of addition of vitamins to milk? List the vitamins and the levels at which they are added to milk.
 - (b) What are the technological difficulties in making vitamin enriched milk ?

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- 5. (a) Why are the preservative added to milk ? What is their mode of action ?
- (b) Mention any two preservative used in milk and also give method for their detection.
- 6. (a) What is the purpose of milk clarification?
- (b) What are the constituents present in slime obtained after clarification ?
- 7. It is required to make 700 kg of milk testing 4.5% fat. How many kg of cream (25% fat) and milk (3% fat) will be required ?
- 8. (a) List the objectives of milk pasteurization
 - (b) Discuss the advantages of HTST over LTLT pasteurization.

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