DG-1824
M. Sc. (Integrated) (Biotechnology) (Sem. V)
Examination
March / April - 2016
Dairy Technology
(Selective Course)

Time : 2 Hours]       [Total Marks : 50

Instruction :

Fill up strictly the details of

Name of the Examination :
M. Sc. (INTEGRATED) (BIOTECHNOLOGY) (SEM. 5)
Name of the Subject :
Dairy Technology (Selective Course)

Subject Code No. : 1 8 2 4  Section No. (1, 2,....) - Nil

1. Answer the following questions in short : 8
   (1) What is Limulus Amoebocyte Lysate (LAL) test ?
   (2) What are "Thermoduric organisms" ? Give two examples.
   (3) Define 'Fermentation'.
   (4) Give average percentage composition of cow’s whole milk.
   (5) What are the consequences of metabolic activity of proteolytic bacteria in milk ?
   (6) Give the composition of a typical yogurt starter.
   (7) What is the health benefit claimed by DailyFIT ?
   (8) Name an organism other than LAB used to prepare probiotic preparation.

2. Attempt any two of following : 14
   (1) Write a brief note on collection and transport of milk.
   (2) Explain pasteurization of milk in detail.
   (3) Describe the preservation of milk by heat and pressure treatment.

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[Contd...
3 Attempt any two of following:
   (1) Write a detailed note on lactic acid bacteria.
   (2) Discuss fermentation process for yogurt production with general outline for plain yogurt production.
   (3) Give an account of Filmjolk, taette and acidophilus milk.

4 Attempt any two of following:
   (1) Discuss the biochemistry or prebiotics.
   (2) Compare prebiotics and probiotics.
   (3) Write a note on synbiotics with names of products using synbiotic concept.