

Term End Examination-2014
Ph.D. in Dairy Science and Technology
RDR-004: Research & Development Management in Dairy Processing

Time: Three Hours

MM: 100

Note: Attempt any five questions. All questions carry equal marks

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| 1 (a) | Describe the on-going and priority research in the area of concentrated and dried milk products. | 10 |
| 1 (b) | Write the definition and significance of "Appropriate Technology" Describe various systems used for successful transfer of technology of a food product. | 10 |
| 2 (a) | Develop structure and design of a research organisation for development of dairy products. Enumerate different steps involved in technology development process. | 10 |
| 2 (b) | What is the role of team work in research? Write the features of a good team and bad team work in a research organization. | 10 |
| 3. | Describe the approaches that are adopted for prioritization of research. Explain the criteria for selection of a research project in dairy processing area and the techniques for monitoring the research project. | 20 |
| 4. | Describe the role and importance of HACCP, particularly in context to total quality management in a food factory. Explain in detail the method of implementation and certification of HACCP programme in a market milk plant. | 20 |
| 5 (a) | What are the means that protect inventions in India and some advanced countries? According to Indian IPR, which inventions are patentable and which are not patentable? | 10 |
| 5 (b) | Describe the significant outcomes of R&D efforts made in the area of dairy processing with special emphasis to Indian dairy industry. | 10 |
| 6 (a) | What are the objectives of preparing dietetic foods? Give the classification and target group for these foods. | 10 |
| 6 (b) | Define convenience foods and describe the current trends in preparation of these foods. | 10 |
| 7 | Write short notes on any four of the following: | 5x4 |
| (a) | Committee structure of an organisation | |
| (b) | Low residue diet | |
| (c) | Weaning food | |
| (d) | Health foods | |
| (e) | Value added dairy products | |