

Ph.D IN DAIRY SCIENCE AND TECHNOLOGY

Term-End Examination

December, 2014

**RDR-004 : RESEARCH AND DEVELOPMENT
MANAGEMENT IN DAIRY PROCESSING**

Time : 3 hours

Maximum Marks : 100

*Note : (i) Attempt any five questions.
(ii) All questions carry equal marks.*

1. Describe the on-going and priority research in the area of concentrated and dried dairy products. 20
2. Develop structure and design of a research organisation. What is role of team work in research ? Write the characteristics of a good team work and bad team work in an organisation. 20
3. Explain the significant outcomes of R & D efforts made in the area of Indian Indigenous dairy products and reflect on research needs for growth and export of dairy products. 20
4. Which approaches are adopted for prioritization of research ? Describe the criteria for selection of dairy and food research projects and the techniques for their monitoring. 20

5. Describe the importance and principle of HACCP in context of Total Quality Management. Explain in detail the method of implementation and certification of HACCP programme in a market milk plant. 20
6. Develop a technical report for establishment of a multi-product Dairy Plant with handling capacity of 2.0 lakh litres of milk every day. 20
7. (a) Define HRM and explain application of the resource based perspective and transactional analysis for improving the HRM practices for Indian Dairy Industry. 10
- (b) Describe the basic steps involved in implementation of Six-Sigma concept in dairy industry. 10
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