

**Ph.D. IN DAIRY SCIENCE AND TECHNOLOGY
(PHDDR)**

Term-End Examination

00010

June, 2015

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

Time : 3 hours

Maximum Marks : 100

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

1. (a) Describe the on-going and priority research in the area of functional dairy foods. 10
- (b) Reflect on research areas to promote growth and export of traditional dairy foods. 10
2. (a) Develop an organisational structure for a research unit in a dairy union having a processing plant. Design a framework of activities. 10
- (b) Describe the different steps involved in technology development process. 10
3. (a) Reflect on human resource requirements and strategies for human resource development for a Dairy Federation in a State. 10
- (b) Describe the factors involved in motivation and team building of human resource in a dairy plant. 10

4. Give the principles of HACCP. Explain in detail the method of implementation and certification of HACCP programme in a fluid milk plant. 20
5. (a) Describe the salient features of ISO – 14001. 10
(b) Review the current status of the Indian Patents Act. 10
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. Write short notes on any *four* of the following : 4×5=20
- (a) Total Quality Management
 - (b) GHP and GMP for a Dairy Plant
 - (c) Transactional Analysis
 - (d) Typological Analysis
 - (e) Six – Sigma Concept
 - (f) International Protocol for Technology Transfer
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