

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

Term-End Examination

December, 2015

**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. (a) Describe the on - going and priority areas of research for the cheese and fermented dairy products. 10
(b) What research areas would you recommend to promote the growth and export of traditional dairy products ? 10
2. Develop a framework of an organisational structure and activities for FSSAI to implement science based standards as per new Act. 20
3. How would you assess the Human Resource Requirement for a Dairy Union in a District ? What Strategies would you recommend for development of Human Resource for the Dairy Union having a processing plant ? 20
4. Describe the principles of HACCP. Explain in detail the method of implementation and certification of HACCP Programme for a multi product processing plant. 20

5. Describe the important factors you would be considering for Technology Development Process and Monitoring of R & D functions as the Head of the Research Unit. 20
6. Describe the salient features of GHP and GMP in reference to milk processing units. How would you ensure implementation of these practices in a dairy plant ? 20
7. Write short notes on **any four** of the followings : 5x4=20
- (a) Total Quality Management.
 - (b) Six-Sigma Concept.
 - (c) Indian Patent Act.
 - (d) Transactional analysis.
 - (e) Typological analysis.
 - (f) Role of team work in a Research Unit.
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