

62

SYLLABUS FOR THE POST OF DAIRY DEVELOPMENT OFFICER
Written Examination and Viva Voce:

<u>Subject/Papers</u>	<u>Marks</u>
1. General English	: 100 Marks
2. General Knowledge	: 100 Marks
3. Btech (Dairy Technology) Paper-I	: 200 Marks
4. Btech (Dairy Technology) Paper-II	: 200 Marks
5. Viva Voce	: 75 Marks

Total : 675 Marks

B.Tech (DAIRY TECHNOLOGY) PAPER- I

1. Dairy Technology

1. Market Milk
2. Fat Rich Dairy Products
3. Traditional Indian Dairy Products
4. Condensed & Dried Milks
5. Cheese Technology
6. Ice-cream & Frozen Deserts
7. Packaging of Dairy Products
8. By Products Technology
9. Sensory Evaluation of Dairy Products
10. Food Technology
11. Dairy Plant Management
12. Waste Disposal & Pollution Abatement

2. Dairy Engineering

1. Engineering Drawing
2. Workshop Practice
3. Fluid Mechanics

4. Heat & Mass Transfer
5. Thermodynamics
6. Basic Electrical Engineering
7. Boilers and Steam Generation
8. Refrigeration & Air-conditioning
9. Dairy Engineering
10. Dairy Process Engineering
11. Instrumentation and Process Control
12. Material Strength & Dairy Machine Design
13. Food Engineering
14. Energy Conservation and Management
15. Dairy Plant Design and Layout

B.Tech (DAIRY TECHNOLOGY) PAPER- II

3. Dairy Chemistry

1. Physical Chemistry of Milk
2. Biochemistry
3. Chemistry of Milk
4. Chemistry of Dairy Products
5. Human Nutrition
6. Chemical Quality Assurance
7. Food Chemistry

4. Dairy Microbiology

1. Fundamentals of Microbiology
2. Microbiology of fluid milk
3. Microbiology of Dairy Products
4. Starter Cultures and Fermented Milk Products
5. Quality and Safety Monitoring in Dairy Industry
6. Food and Industrial Microbiology

5. Dairy Business Management

64

1. Milk Production Management and Dairy Development
2. Communication Skills
3. Environmental Studies
4. Economic Analysis
5. Computer and Application Software Packages
6. Fundamentals of Dairy Extension
7. ICT in Dairy Industry and Operation Research
8. Marketing Management & International Trade
9. Financial Management and Cost Accounting
10. Entrepreneurship Development
11. Industrial Statistics

EMPHASIS:

The Department of Animal Husbandry, Veterinary & Dairy Development will be giving more **weight-age** on the Dairy Development sector than engineering sector. As of now, there is no officer in the department having B.Tech (Dairy Technology) back ground especially to cater the Dairy Development Sector. The appearing candidates should be well versed about the present context of the department about the milk production scenario and its ways and means for the enhancement of milk production in the state.

(Signature)
18/10/21
Secretary
Department of AH, Vety &
Dairy Development
Govt. of Arunachal Pradesh
Itanagar