



1. The milk Production represents the most important income for dairy cattle discuss fully the following

- Milk Ejection – Milk Letdown
- Normal Pattern of Milk Production
- Lactation curve and persistency with comparison between the ideal and skewed curve
- Genetic versus managemental factors milk yield and composition

2. The dry Period play an important role in the next Lactation and health of a dairy cow

- Reasons for the Dry Period
- Length of dry period
- Drying off
- Dry cow therapy for treatment and control of mastitis
- Proper conditioning of dairy cow and body condition scoring
- Principles of dry cow feeding

3. Herd Health Program

- The goals or objectives of a herd health program
- Some measures of the effectiveness of the program
- The basic principles of an effective health-care program apply to all farms
- Specific programs and practices (calf and heifer – adult cow- reproductive program- mastitis control program- new additions to the herd)

4- Selecting Desirable Breeding and Production Animals

- Basis selection of desirable dairy animals for breeding and production
- Type Classification of dairy cows (uses)
- Linear Traits (Frame – Udder - Feet and Legs - Body Capacity - Dairy character)

5- Inaccurate heat detection represent the most critical problem affecting the income of a dairy farm.



- Economic aspects of infertility
- Measures and goals of reproductive efficiency
- Reproductive characteristics of dairy cattle
- Improving the fertility situation
- Estrous cycle and heat detection
- Improving the conception rate

6- Sheep Production

- Biological classification of sheep
- Advantages and Characteristics of Sheep
- Systems of Raising Sheep
- Breeds of Sheep
- Breeding systems
- Factors to Consider in Establishing the Flock
- Reproduction in Sheep
- Breeding management
- Management after the End of the Breeding Season
- Management of Pregnant Ewes
- Lambing and Management of Lambs from Birth to Weaning

7- Goat Production

- Biological classification of Goat
- Advantages and Characteristics of Goat
- Systems of Raising Goat
- Breeds of Goat
- Breeding systems
- Factors to Consider in establishing the band
- Reproduction in Goat
- Breeding management
- Management after the End of the Breeding Season
- Management of Pregnant Does

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- Kidding and Management of Kids from Birth to Weaning

8. Fish pond management and its importance to fish health and productivity

With special reference to these Items

Soil Sampling

Liming

Fertilization

9. The use of live food for fish larvae in fish hatcheries

With special reference to the following Items

Types of live food

Criteria for choosing live food for fish larval rearing

Live food enrichment

Using of dry food

10. Role of fish hatcheries in meeting the emerging fish seed demands

With special reference to the following Items

Effect of water quality on fish spawning

Brood fish Management

Spawning

Larvae Management

Fingerlings Management