

## **2.15 31615 BASICS IN LIVESTOCK MANAGEMENT AND POULTRY PRODUCTION**

### **UNIT-1 THEORY**

- 1.1 Prelusion- Significance of Livestock and Poultry in Indian economy
- 1.2 Various systems of livestock production
- 1.3 Livestock and Poultry census and its role on national Gross Domestic Product Special and common nomenclatures used in Animal Husbandry practices.
- 1.4 Breeds-Classification-White and Black cattle breeds- Breed characteristics of Sindhi, Kangayam, Umblacherry, Jersey, Holstein Friesian, Murrah and Surti
- 1.5 Signs of estrus cycle- Artificial Insemination- Housing management selection of site-space requirement-calf and adult stock
- 1.6 Care and management of new born- heifer- milch cattle and work bullocks.
- 1.7 Clean milk production- Nutrition-Ration-Balanced ration-Desirable characteristics of ration Classification of feeds and fodder- Concentrate and Roughage's- Composition and Requirement of ration for young and adult stock -Green fodder requirement and importance.
- 1.8 Diseases- Classification-Viral- Rinderpest-Foot and Mouth-Bacterial
- 1.9 AnthraxHaemorrhagic septicemia- Black Quarters- Metabolic-Milk fever- Ketosis-Tympanites- causative organism - Transmission- Symptoms- Control and Prevention.
- 1.10 Farm Records- Record keeping- Insurance- Selection and culling of livestock.
- 1.11 Sheep and Goat farming- Classification of breeds-Exotic and indigenous Nomenclature Economic traits
- 1.12 Systems of rearing- Housing management- Care and management of young and adult stock- Nutrition- Common diseases-Sheep pox-Foot and Mouth Blue Tongue
- 1.13 Enterotoxaemia-Ecto and endo parasites- Prevention and Control.
- 1.14 Poultry farming- Classification of breeds- Commercial strains of layer and broiler Housing management-Brooding management-Deep litter-Cage system-
- 1.15 Nutrition of Chick Grower and Layer and Broiler- Diseases-Classification
- 1.16 Viral-Ranikhet-Infectious Bursal Disease Bacterial- E.ColiCoryza- Salmonellosis- Protozoan- Coccidiosis
- 1.17 Causative organisms-Symptoms Vaccination-Disease control and Prevention.

### **UNIT-2 PRACTICAL**

- 2.1 Study of external parts of Livestock and Poultry
- 2.2 Identification of livestock and poultry Tattooing-ear tags-wing and leg bands
- 2.3 Common restraining methods- Disbudding (or) Dehorning Different methods of castration-
- 2.4 Dentition-Study of type design of animal and poultry houses
- 2.5 Selection of dairy cow and work bullock
- 2.6 Determination of specific gravity, fat percentage and total solids of milk
- 2.7 Preservatives of milk-Identification of feeds and fodder
- 2.8 Economics Dairy, Goat and Swine farming's
- 2.9 Composition of livestock and poultry rations. .

- 2.10 Brooder management-Judging of a layer from non-layer
- 2.11 Debeaking, delousing and deworming of poultry Vaccination schedule for broiler and layer  
Economics of poultry production
- 2.12 Visit to a modern Dairy plant and commercial layer and broiler farms.

**References Books:**

- 1. Banerjee, G.C. 1993 The Text Book of Animal Husbandry Oxford Book Company, Calcutta.
- 2. Dairy India Year Book 5th edition. A-25, Priyadarshini Vihar, Delhi.
- 3. ICAR, 1997 A Hand Book of Animal Husbandry.

