



**DIPLOMA IN VETERINARY & LIVESTOCK  
DEVELOPMENT ASSISTANT (VLDA)  
SYLLABUS  
SESSION 2013-14**

**DETAILED SYLLABUS**

**FIRST YEAR**



## PHARMACY VLDA 101

### Theory

#### Unit I

**Definitions of the terms:** Pharmacology, Pharmacy, Chemotherapy, Therapeutics, Toxicology, Phonology and motrology etc.

#### Unit II

**Drugs:** Sources and nature of drugs, Routing, Pharma processes, various dosage form with suitable examples principles of compounding and dispensing of drug preparations different methods for the administration of drugs, pharmacy weights and measures Apothecary's and metric system, household measures.

#### Unit III

**Prescription reading-** parts of prescription and commonly used Latin abbreviations in prescription writing.

#### Unit IV

**Broad therapeutic classification of drugs employed in Veterinary Practice-** Definitions, examples and therapeutic uses in animals.

### Practical

1. Identification of common drugs
2. Labeling and storage of common drugs.
3. Compounding and dispensing of pharmacy preparations.

## INTRODUCTION TO STRUCTURE AND FUNCTIONS OF BODY VLDA 102

#### Unit I

Identification of organs of different systems of domestic animals through charts, models and other audio-visual aids

#### Unit II

Elementary knowledge regarding physiological functions of various organs



# INTRODUCTION TO LIVESTOCK AND POULTRY MANAGEMENT

## VLDA 103

### Theory

#### Unit I

**Important definitions:** related to animal management care of animals (Cattle, Sheep's, goat and swine) during and after parturition, housing of animals. Routine management practices life grooming, washing, dipping, casting, sherring and exercising; Raising and feeding of farm animals.

#### Unit II

**Signs of health in different animals:** care of sick animals, milking management, Control of vices of animals; introduction to feeding and Management of horses and camels

#### Unit III

**Importance of poultry farming:** elementary knowledge of incubation and hatchery management; management of chicks, growers and layers; poultry housing and feeding; vaccination against poultry diseases.

### Practical

1. External body parts of different animals.
2. Methods of approaching and handling animals
3. Milking farm animals.
4. Methods of ageing; growing; identification, casting and restraining of farm animals
5. Feeding of dairy animals;
6. Methods of recording temperature; pulse, respiration,
7. Debudding and drenching of animals. Record keeping.
8. Routine farm operations like incubation and hatching, fumigation, candling, wingbanding, legbanding, brooding of chicks.
9. Litter Management, feed mixing, vaccination, debeaking and record keeping.



## **ANIMAL BREEDING VLDA 104**

### **Theory**

#### **Unit I**

General terms used in animal breeding

#### **Unit II**

Important breeds of livestock (cattle, buffalo, sheep, goat and swine) and poultry, their origin, distribution and breed characteristics

#### **Unit III**

Economic utility characters of different species of livestock and poultry

#### **Unit IV**

Importance of livestock record keeping and various types of records

#### **Unit V**

Elementary knowledge of breeding systems

### **Practical**

1. Identification of various breeds of livestock and poultry.
2. Recording of breeding date.

## **ANIMAL NUTRITION VLDA 105**

#### **Unit I**

**Nutrients:** Elementary description of nutrients and their requirements for maintenance, growth reproduction, lactation, egg production, wool production and work,

#### **Unit II**

Feeding: General principles of feeding and common principle for different categories

#### **Unit III**



**Reproduction:** introduction to reproduction- artificial insemination and storage of semen production of common fodder crops including and knowledge about common ...

#### **Unit IV**

Preparation, preservation and storage of hay and silage

#### **Unit V**

Common feed and fodder their classification, identification.

### **Practicals**

Elementary knowledge of computation of ration for different types of livestock and poultry silage and hay making

## **APPLIED GRAMMAR & PRECISE WRITING VLDA 106**

#### **Unit I**

Parts of speech, narration, voice, corrections, idioms verbal, Phrases, rhymes,

#### **Unit II**

Precise writing, paragraph writing, letter writing translation from Hindi to English, Text (Grammar based prepared by CIFEL, Hyderabad), essay writing and speech, report writing,

#### **Unit III**

Use of articles, punctuation, Transformation of sentences; one word substitution; Translation/Retranslation, Soaking of an announced topic, comprehensive reading

#### **Unit IV**

**Elementary extension education:** Meaning, importance and role of Extension Education in Livestock Development, Philosophy and principle of Extension Education, Extension Methods for promotion of animal husbandry practices, arrangement of extension activities at village level, understanding the needs and interest of rural masses.

### **Practical**

Handling of Audio-Visual equipments under Village conditions and preparation of simple Visual aids



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**DIPLOMA IN VETERINARY & LIVESTOCK  
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**DETAILED SYLLABUS**

**SECOND YEAR**



## ELEMENTARY MEDICINE VLDA 201

Preliminary knowledge about signs of disease, clinical methods of examination and detection of abnormalities:

- (1) Abnormal body discharge.
- (2) Body temperature, pulse, respiration
- (3) Methods of injecting drugs, sera, vaccine etc. Use of canola, Passing stomach tube, probing heat symbol and other instruments for treatment.
- (4) General agents responsible for causing disease bacteria, Viruses, Fungi and Parasites.
- (5) General principles of prevention and control of disease.
- (6) Utilization and disposal of carcasses.
- (7) Elementary clinical diagnostic methods, history & general examination.
- (8) Non – infectious diseases-symptoms and first aid of follow diseases:  
Stomatitis, choke, upper resp, tract infections, tympany, impaction, constipation, diarrhoea and dysentery, indigestion pneumonia, haemoglobinuria, milk fever, ketosis, pica in camels, retention of urine.

### **Infectious diseases:**

Symptoms and first aid in the following disease.

#### **1. Bacterial & Viral**

- I. Johnne's diseases, mastitis, haemorrhagic Septicemia
- II. Anthrax, Black quarter, tetanus, enterotoxemia
- III. Rinderpest, F.M.D. Rabies, Swine fever.

#### **2. Parasitic diseases**

Sabesiosis, Theileriosis, Trypanosomiasis, Coccidiosis, Ascariasis, control of Flies, Lice, ticks and mites and mange.

#### **3. Poultry diseases**

Ranikhet diseases, fowl pox, salmonellosis

#### **4. Common camel diseases.**

### **Practicals**

Cleaning of slides, glasswares and other laboratory equipments, techniques of staining and preparation of blood smears, care and use of microscopes, collection, processing for examination of blood, urine, faeces, collection, preservation, fixation and dispatch of morbid material for laboratory examination





## **SURGERY VLDA 202**

### **Theory**

- (I) Introduction and common terms used in Surgery.
- (II) Sterilization in surgical practice
- (III) Introduction to superficial surgical ailments (Abscess, fistula, sinus, wounds, gangrene, cyst)
- (IV) Introduction to dental care.
- (V) Introduction to hoof management.
- (VI) First aid management of fracture, blood, hemorrhage.
- (VII) Introduction to post operative management
- (VIII) Application and uses of various antiseptics lotions ointments and tinctures in surgical practice.

### **Practical**

- (I) Preparation of pack for auto calving
- (II) Surgical attires and their uses by the Surgeon
- (III) Operation room discipline
- (IV) Dressing of wounds and bandages
- (V) Identification of various surgical instruments
- (VI) Physical restraint or animals for surgery
- (VII) Various injections
- (VIII) Burdize castration
- (IX) Preparing animal for surgery
- (X) Application of counter irritants, heat, cold fermentation

## **GYNECOLOGY (REPRODUCTIVE DISORDERS) VLDA 203**

### **Unit I**

Introduction to reproductive patterns of livestock

### **Unit II**

Genital organs of male and female Transportation of materials from abortions, Assistance in holding obstetrical cases

### **Unit III**

Preparation of packs for obstetrical operations sterilization of instruments, preparation of animals, untrauterive medication



#### **Unit IV**

Assistance to parturient animals Care of new born, Nomenclature gynecological and obstetrical conditions

#### **Practicals**

Intrauterine medication, use of Vagino scope, Preparation of packs for obstetrical cases, Preparation of different stains for semen evaluation and cytology, Assistance in obstetrical cases

### **CLINICAL PRACTICE VLDA 204**

#### **Unit I**

Recording of temperature, pulse and respiration....

#### **Unit II**

Drug administration, practice of compounding and dispensing various drugs,

#### **Unit III**

Use of trocar & canula, stomach tube, probang : intreammammary infusions, dressing of wounds, preparation of commonly used of ointments, tinctures, lotions/solutions etc.

#### **Unit IV**

Acquaintance with various gynaecological and surgical instruments with their uses, sterilization of instruments etc

#### **Unit V**

Demonstration of gynecological and surgical problems preparation and handling of surgical pack, introduction to X-ray procedure, collection of clinical material for laboratory examination, Burdizzo castration of calf, sheep and goat.



## **REPRODUCTION ARTIFICIAL INSEMINATION AND STORAGE OF SEMEN VLDA 205**

### **Unit I**

Structure and function of reproductive organs of cow, horse, dog, pig and poultry, Estruscycles of domestic animals

### **Unit II**

Signs of heat in domestic animals on periods of domestic animals

### **Unit III**

Samprames gestation of partarition in cattle, buffaloes, sheep, goat and pigs

### **Unit IV**

Advantages and limitation of the technique of Artificial insemination

#### **Practical**

- (1) Rectal palpation of reproductive organs.
- (2) Training of bulls.
- (3) Preparation of Artificial vagina for semen collection
- (4) Semen collection and evaluation.
- (5) Preparation of diluters and extension of semen.
- (6) Demonstration of semen freezing techniques.
- (7) Artificial insemination technique with liquid/frozen semen
- (8) Sterilization off glassware /laboratory were used in A.I. work

## **ANIMAL PRODUCTS TECHNOLOGY VLDA 206**

### **Unit I**

Handling, storage and distribution of meat, poultry and eggs

### **Unit II**

Milk definition and its composition, Factors affecting composition and quality of milk

### **Unit III**



Elementary knowledge about nutritive value, sources of bacterial contamination of milk and clean milk production;

#### **Unit IV**

Milk collection, legal standards of milk; processing,

#### **Unit V**

Packaging and distribution of milk

#### **Practical**

Candling and grading of eggs, Samples, C.C.B. and alcohol tests, ph by indicator paper, specific gravity test, estimation of fat, S.N.F and T.S in milk, determination of adulterants and preservations.

