OPJS UNIVERSITY, CHURU(RAJASTHAN)

Syllabus

For

Diploma in Veterinary Pharmacy

(DVP)

First Year

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Paper code</th>
<th>Name of Papers</th>
<th>M.M.(T-S-P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DVP-101</td>
<td>Introduction to Pharmacy</td>
<td>70+30+50=150</td>
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<tr>
<td>2.</td>
<td>DVP-102</td>
<td>Study of Structure &amp; function of Body</td>
<td>70+30+50=150</td>
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<tr>
<td>3.</td>
<td>DVP-103</td>
<td>Live Stock, Poultry Production &amp; Management</td>
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<td>4.</td>
<td>DVP-104</td>
<td>Fundamentals of Animal Breeding</td>
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<td>5.</td>
<td>DVP-105</td>
<td>Fundamentals of Animal Nutrition</td>
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<td>6.</td>
<td>DVP-106</td>
<td>General English</td>
<td>70+30=100</td>
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<td>7.</td>
<td>DAP-107</td>
<td>General Hindi</td>
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Second Year

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<td>Animal Products Technology</td>
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Details of Syllabus

First Year

DVP-101- Introduction to Pharmacy

**Theory**

Definitions of the terms: Pharmacology, Pharmacy, Chemotherapy, Therapeutics, Toxicology, Phonology and motrology etc. 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. Prescription reading- parts of prescription and commonly used Latin abbreviations in prescription writing. Broad therapeutic classification of drugs employed in Veterinary Practice- Definitions, examples and therapeutic uses in animals.

**Practical**

Identification of common drugs labeling and storage of common drugs. Compounding and dispensing of pharmacy preparations.

**Note:**

1. Eight questions are to be set, at least one question from each unit. Students will have to attempt five questions in all.
2. Use of non-programmable scientific calculator is allowed in Examination Hall.

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DVP-102- Study of Structure & function of Body

Identification of organs of different systems of domestic animals through charts, models and other audio-visual aids. Elementary knowledge regarding physiological functions of various organs

**Note:**

1. Eight questions are to be set. Students will have to attempt five questions in all.
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DVP-103- Live Stock, Poultry Production & Management

Theory

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. 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. 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

External body parts of different animals. Methods of approaching and handling animals; milking farm animals. Methods of ageing; growing; identification, casting and restraining of farm animals Feeding of dairy animals; methods of recording temperature; pulse, respiration, debudding and drenching of animals. Record keeping. Routine farm operations like incubation and hatching, fumigation, candling, wing banding, leg bending, brooding of chicks. Litter Management, feed mixing, vaccination, debeaking and record keeping.

Note:

1. Eight questions are to be set. Students will have to attempt five questions in all.
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DVP-104- Fundamentals of Animal Breeding

Theory

- General terms used in animal breeding
• Important breeds of livestock (cattle, buffalo, sheep, goat and swine) and poultry, their origin, distribution and breed characteristics.
• Economic utility characters of different species of livestock and poultry.
• Importance of livestock record keeping and various types of records.
• Elementary knowledge of breeding systems

Practical

• Identification of various breeds of livestock and poultry.
• As cording of breeding date.

Note:

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DVP-105- Fundamentals of Animal Nutrition

THEORY

Elementary description of nutrients and their requirements for maintenance, growth reproduction, lactation, egg production, wool production and work, General principles of feeding and common principle for different categories of introduction to reproduction artificial insemination and storage of semen production of common fodder crops including and knowledge about common ... Preparation, preservation and storage of hay and silage. Common feed and fodder their classification, identification.

Practical

Elementary knowledge of computation of ration for different types of livestock and poultry. Silage And hay making.

Note:

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DVP-106- General English

Parts of speech, narration, voice, corrections, idioms verbal. Phrases, rhymes, Précis writing, paragraph writing, letter writing translation from Hindi to English, Text (Grammar based prepared by CIFEL, Hyderabad).

ESSAY WRITING AND SPEECH

Use of articles, punctuation, Transformation of sentences; one word substitution; Précis writing, Essay writing, Report writing, Translation/Retranslation, Soaking of an announced topic, comprehensive reading, text (Grammar based prepared by CIFEL, Hyderabad).

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 reparation of simple Visual aids.

Note:

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DVP-107- General Hindi

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- Hkk"kk dh fuekZ.k izfdz;k
Eight questions are to be set. Students will have to attempt five questions in all.

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Second Year

DVP-201- Study of Elementary Medicine

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

- Abnormal body discharge.
- Body temperature, pulse, respiration
- Methods of injecting drugs, sera, vaccine etc. Use of canola, Passing stomach tube, probing heat symbol and other instruments for treatment.
- General agents responsible for causing disease bacteria, Viruses, Fungi and Parasites.
- General principles of prevention and control of disease.
- Utilization and disposal of carcasses.
- Elementary clinical diagnostic methods, history & general examination.
- Non – infectious diseases-symptoms and first aid of follow diseases: Steatites, choke, upper respiratory, tract infections, tympany, impaction, constipation, diarrhea 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, hemorrhagic Septicima
   II. Amthros, Blak quarter, tetanus, enterotorimia
   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 fox, salmonellosis

**Practical**

Cleaning of slides, glassware’s 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 laboratories examination.

**Note:**
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**DVP-202- Introduction To Surgery**

**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, hemorrhages.
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  

**Note:**  

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**DVP-203-Introduction To Gynecology**  

**THEORY**  

Introduction to reproductive patterns of livestock Genital organs of male and female Transportation of materials from abortions. Assistance in holding obstetrical cases Preparation of packs for obstetrical operations sterilization of instruments, preparation of animals, untrauterive medication. Assistance to parturient animals Care of new born. Nomenclature gynecological and obstetrical conditions  

**Practical**  

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.  

**Note:**  

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**DVP-204- Fundamentals of Clinical Practice**
Recording of temp., pulse and respiration,... drug administration, practice of compounding and dispensing various drugs, use of trocar & canula, stomach tube, probang: intreammammary infusions, dressing of wounds, preparation of commonly used of ointments, tinctures, lotions/solutions etc. acquaintance with various gynecological and surgical instruments with their uses, sterilization of instruments etc. 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.

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DVP-205- Elements of Reproduction Artificial Insemination & Storage of Semen


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

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DVP-206- Animal Products Technology


Practical


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