

**प्रदेश लोक सेवा आयोग, मधेश प्रदेश**  
**कृषि सेवा, भेटेरिनरी समूह, अधिकृत साताँ तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।**

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

प्रथम चरण:-	लिखित परीक्षा (Written Examination)
द्वितीय चरण :-	(क) सामूहिक परीक्षण (Group Test)
	(ख) अन्तर्वार्ता (Interview)

पूर्णाङ्क : २००  
पूर्णाङ्क : १०  
पूर्णाङ्क : ३०

**परीक्षा योजना (Examination Scheme)**

**प्रथम चरण: लिखित परीक्षा (Written Examination)**

पूर्णाङ्क : २००

पत्र	बिषय	खण्ड	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	अङ्क भार	समय	
प्रथम	General Subject	Part I: General Awareness & General Reasoning Test	१००	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न X १ अङ्क	१ घण्टा ३० मिनेट
		Part II: General Technical Subject					५० प्रश्न X १ अङ्क	
द्वितीय	Technical Subject		१००	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न X ५ अङ्क ८ प्रश्न X १० अङ्क	३ घण्टा

**द्वितीय चरण : अन्तर्वार्ता (Interview)**

पूर्णाङ्क : ४०

पत्र / विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	समय
सामूहिक परीक्षण (Group Test)	१०		सामूहिक छलफल (Group Discussion)	३० मिनेट
अन्तर्वार्ता (Interview)	३०		बोर्ड अन्तर्वार्ता (Board Interview)	-

**द्रष्टव्य :**

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुबै हुनेछ ।
- प्रथमपत्र र द्वितीय पत्रको लिखित परीक्षा छुटाछुटै हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत २० प्रतिशत अङ्क दिइने छैन र अङ्क कट्टा पनि गरिने छैन ।
- बहुवैकल्पिक प्रश्नहरू हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- विषयगत प्रश्नहरूको हकमा तोकिएको अंकको एउटा लामो प्रश्न वा एउटै प्रश्नका दुई वा दुई भन्दा बढी भाग (Two or more parts of a single question) वा एउटा प्रश्न अन्तर्गत दुई वा बढी टिप्पणीहरू (Short notes) सोध सकिने छ ।
- द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुटाछुटै उत्तरपुस्तिकाहरू हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरू परीक्षाको मिति भन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्झनु पर्दछ ।
- प्रथमचरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति: २०८१०९।०९

प्रदेश लोक सेवा आयोग, मधेश प्रदेश  
कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

**प्रथम पत्र (Paper I): General Subject**  
**Part (1): General Awareness & General Ability Test (50 Marks)**

**1. General Awareness and Contemporary Issues (25x1 Mark = 25 Marks)**

- 1.1 Physical, socio-cultural and economic geography and demography of Nepal
- 1.2 Major natural resources of Nepal
- 1.3 Geographical diversity, climatic conditions, and livelihood & lifestyle of people
- 1.4 Notable events and personalities, social, cultural and economic conditions in modern history of Nepal
- 1.5 Current periodical plan of Nepal
- 1.6 Information on sustainable development, environment, pollution, climate change, biodiversity, science and technology
- 1.7 Nepal's international affairs and general information on the UNO, SAARC, BIMSTEC
- 1.8 The Constitution of Nepal (From Part 1 to 5 and Schedules)
- 1.9 Governance system and Government (Federal, Provincial and Local)
- 1.10 Provisions of civil service act and regulation relating to constitution of civil service, organisational structure, posts of service, fulfillment of vacancy and code of conduct
- 1.11 Functional scope of public services
- 1.12 Public Service Charter
- 1.13 Concept, objective and importance of public policy
- 1.14 Fundamentals of management planning, organizing, directing, controlling, coordinating, decision making, motivation and leadership
- 1.15 Government planning, budgeting and accounting system
- 1.16 Major events and current affairs of national and international importance

**2. General Reasoning Test (25x1 Mark = 25 Marks)**

**2.1 Logical Reasoning (9x1 Mark = 9 Marks)**

Verbal Ability, Alphanumeric Series, Reasoning Analogies, Classification, Coding-Decoding, Order & Ranking, Distance & Directions, Analytical and Logical Reasoning, Assertion and Reason, Statement and Conclusion, Input- Output, Venn- diagram

**2.2 Numerical Reasoning (8x1 Mark = 8 Marks)**

Arithmetic Series, Analogy, Classification, Arithmetical Reasoning, Fraction, Percentage, Ratio, Average, Profit & Loss, Time & Work, Date & Calendar, Data Sufficiency, Data Interpretation & Data Verification

**2.3 Spatial Reasoning (8x1 Mark = 8 Marks)**

Figure Series, Figure Analogy, Figure Classification, Figure Matrix, Pattern Completion, Embedded Images, Image Formation & Analysis, Mirror and Water Images, Cubes and Dices, Paper Folding & Cutting

**Part (II): General Technical Subject (50 Marks)**

**1. Introduction** 10%

- 1.1 History and current status of veterinary services in Nepal
- 1.2 Current status of livestock production and production systems of livestock and poultry in Nepal
- 1.3 Indigenous and exotic breeds of livestock and poultry and their population in Nepal
- 1.4 Role of public and private sector in the promotion of veterinary services in Nepal
- 1.5 Recent policies and plans related to livestock development
- 1.6 Provisions made by APP, ADS, Livestock Master Plan and Dairy Development Plan for Livestock Sector development

**2. Clinical subjects**

**2.1 Veterinary Medicine** 40%

- 2.1.1 Distinguish between health and disease, General clinical examinations of animals, Normal physiological values like body temperature, rectal temperature, heart rates, respiratory rates, urinary volume and fecal output of different species of animals
- 2.1.2 Systemic disease: Etiology, diagnosis and treatment of Disease of Blood, lymphatic and cardiovascular system, Disease of Digestive system, Common disease of eye and ear, Disease of Endocrine system, Disease of Nervous system, Disease of Reproductive and urinary system, Disease of Respiratory system, Disease of Skin
- 2.1.3 Metabolic and production diseases
- 2.1.4 Nutritional deficiency diseases
- 2.1.5 Trans-boundary animal disease & deficiency diseases (TADs): Definition, etiology, epidemiology, transmission, pathogenesis, symptoms, diagnosis, treatment, control and prevention of the following TADs: FMD; RP; PPR; CBPP; Sheep pox and Goat pox; Blue tongue; Classical swine fever; Highly Pathogenic Avian Influenza; New castle disease; Lampy Skin disease.
- 2.1.6 Other Infectious diseases: Definition, etiology, epidemiology, transmission, pathogenesis, symptoms, diagnosis, treatment, control of the following infectious diseases: HS; BQ; Malignant edema; Tetanus; Anthrax; Tuberculosis; Paratuberculosis; Actinomycosis; Actinobacillosis; Brucellosis; Listeriosis; Leptospirosis; Mastitis; Strangles; Glanders; Degnala disease; Salmonellosis; Mycoplasmosis; Mad cow disease; Rabies; Scrapie; Canine distemper;
- 2.1.7 Etiology, epidemiology, transmission, pathogenesis, symptoms, diagnosis, treatment and control of the common disease caused by chlymedia, Ricktesia and Fungi in different species of animals
- 2.1.8 Diseases of Poultry: Definition, etiology, epidemiology, transmission, pathogenesis, symptoms, diagnosis, treatment, control of the following poultry disease: Fowl pox; Fowl Typhoid; BWD; CRD; Infectious bursal disease; Infectious bronchitis; Marek's disease; Avian leucosis complex; Egg drop syndrome; Leechy heart disease; Fowl cholera; Aflatoxicosis
- 2.1.9 Parasitic diseases: Etiology, epidemiology, transmission, pathogenesis, symptoms, diagnosis,

प्रदेश लोक सेवा आयोग, मधेश प्रदेश  
कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

treatment, control of the following parasitic diseases

**Helminthic parasitic diseases:** Liver Fluke; Paramphistomiasis; Ascariasis; G.I. Nematodiasis; Tape worm infection in different species of animals. Gastro intestinal parasitism in animals.

**Protozoan diseases:** Anaplasmosis; Babesiosis; Theileriosis; Trypanosomiasis; Toxoplasmosis; Coccidiosis and ecto-parasitism.

2.1.10 Diagnosis, treatment and management of different forms of poisonings and snake bite

2.1.11 Prospects and constraints of animal and poultry vaccine production in Nepal, their uses and abuses

## 2.2 Veterinary Surgery

2.2.1 General surgical principles and procedures adopted in surgery Pre and post-operative considerations

2.2.3 Antiseptics and disinfectants

2.2.4 Sterilizations of surgical materials and instruments.

2.2.5 Importance of sutures and suturing materials

2.2.6 Inflammations; Abscess; Tumors; Cysts; Hematoma; Hernia and their treatment

2.2.7 Different types of wounds and their treatment

2.2.8 Gangrene; Burn, Scald; Frost bite and their treatment

2.2.9 Fractures and dislocations, their diagnosis and treatment

2.2.10 Special surgery; Caesarian section; Rumenotomy; Ovario-hysterectomy, Stringhalt; Spaying and Neutering

2.2.11 Different types of local, regional and general anesthetic procedures

## 2.3 Veterinary obstetrics and Gynecology

2.3.1 Normal reproductive cycle of different farm animals and dogs.

2.3.2 Breeding soundness examination of bull

2.3.3 Detection of heat

2.3.4 Artificial insemination

2.3.5 Pregnancy diagnosis

2.3.6 Embryo transfer

2.3.7 Concept of infertility and sterility

2.3.8 Diagnosis and treatment of silent estrus, an-estrus, repeat breeders metritis, endometritis and pyometra

2.3.9 Dystokia and its correction

2.3.10 Prolapse of uterus, vagina and their correction.

2.3.11 Use of hormones and prostaglandins

2.3.12 Infectious diseases causing abortions

## 2.4 Epidemiology and Veterinary public health

2.4.1 Definition, aim, objectives and application of epidemiology

2.4.2 Epidemiological concept of disease control

2.4.3 Surveillance and monitoring of disease

2.4.4 Different types of epidemiological studies

प्रदेश लोक सेवा आयोग, मधेश प्रदेश  
कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

- 2.4.5 Outbreak investigation
- 2.4.6 Prevalence rate, incidence rate and difference between them
- 2.4.7 Characteristics of host factor, agent factor and environmental factor
- 2.4.8 Different terminology used in epidemiology
- 2.4.9 Epidemiological reporting practices in Nepal
- 2.4.10 Cost analysis of the disease control programs
- 2.4.11 Risk analysis
- 2.4.12 Definition and objective of VPH
- 2.4.13 Different roles of VPH (Animal production, food hygiene and environmental protection)
- 2.4.14 Diagnosis, surveillance and control of various zoonotic diseases
- 2.4.15 Meat inspection: anti-mortem, post-mortem and re-inspection
- 2.4.16 Different component and management of slaughterhouse
- 2.4.17 Milk hygiene
- 2.4.18 Concept of HACCP (Hazard analysis and critical control point)
- 2.4.19 Basic concepts of Livestock Emergency Guidelines and Standards (LEGS)

## **2.5 Veterinary extension**

- 2.5.1 Definition, philosophy and principles of extension education
- 2.5.2 Classification of extension teaching methods
- 2.5.3 Public private partnership
- 2.5.4 Social mobilization (CBOs, NGOs, and INGOs)

## **2.6 Clinical pathology and parasitology**

- 2.6.1 Materials to be sent to laboratory for different disease diagnosis
- 2.6.2 Hematological examinations (TC, DC, ESR, PCV, RBC count, Blood smears, hemoglobin Estimation)
- 2.6.3 Blood chemistry (estimation of blood glucose, serum and calcium)
- 2.6.4 Liver and kidney functions tests
- 2.6.5 Urine analysis (Routine test, test for detection of protein, Glucose, Ketone bodies, blood, bile Pigment)
- 2.6.6 Blood and urine culture and antibiotic sensitivity tests
- 2.6.7 California mastitis tests.
- 2.6.8 Important diagnostic tests: Different staining procedures. Tuberculin tests in animals, Test for pullorum disease (Rapid stained antigen), Brucellosis tests (RBPT and milk ring test) Test for rabies (Negri bodies test)
- 2.6.9 Post mortem examinations.
- 2.6.10 Clinical parasitology (Examination of faeces: direct smear method, concentration method And floatation method)
- 2.6.11 Examination of skin scrapping
- 2.6.12 Bacterial, Viral and Fungal serological techniques
- 2.6.13 ELISA and PCR

## **3. Para-clinical subjects 20%**

### **3.1 Veterinary Microbiology**

**प्रदेश लोक सेवा आयोग, मधेश प्रदेश**  
**कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।**

- 3.1.1 General characteristics, properties, morphology, metabolism, growth and reproduction of bacteria, virus and fungus of various classes
- 3.1.2 Bacterial genetics, mutation and variations associated with virulence
- 3.1.3 Antigenicity, drug resistance
- 3.1.4 Principles of antiseptics, sterilization and disinfection
- 3.1.5 Resistance and immunity, antigen-antibody reaction and methods of detection Cell mediated and humoral immunity and immune mechanism. Immune system and its development. Antigen-antibody reactions
- 3.1.6 Immunization of animals
- 3.1.7 Hypersensitivity-allergy
- 3.1.8 Bacteriophage, their description and application
- 3.1.9 Laboratory techniques for bacterial, viral, fungal culture and identification
- 3.1.10 Important diseases of domesticated animals caused by bacteria, viruses, rickettsia, chlamedia and fungi

### **3.2 Veterinary Parasitology**

- 3.2.1 Parasites and Parasitism, Types of parasitism, host-parasite relationship
- 3.2.2 Importance of immunity against parasitic diseases
- 3.2.3 Classification and nomenclature of parasites and characteristics of different classes of parasites
- 3.2.4 Parasite development in the host system
- 3.2.5 Antiparasitic and anthelmintic medication, their use and abuse. Anthelmintic resistance
- 3.2.6 General description, classification, morphological characteristics and diseases caused by helminths, arthropods, insects and arachnida of domesticated animals and birds and their epidemiology, effects and methods of controlling them
- 3.2.7 Protozoan parasites of domesticated animals and birds, their classification, morphology and the diseases caused by them with epidemiology, effects and control strategies
- 3.2.8 Identification of different parasites and the methods of their culture and laboratory growth

### **3.3 Veterinary Pathology**

- 3.3.1 Pathological responses of body to infection
- 3.3.2 Inflammation: classification and changes in inflammatory responses
- 3.3.3 Pathological disturbances and responses in circulatory system, cell metabolism, pigment metabolism
- 3.3.4 Disturbances in growth: Neoplasm and cancer
- 3.3.5 Healing, fever
- 3.3.6 Uroliths, choleliths, sialoliths, pancreoliths, enteroliths
- 3.3.7 Immune reactions. Hypersensitivity and auto immunity
- 3.3.8 Pathology of diseases of cardiovascular system, hemopoietic system, respiratory system, digestive system, urinary system, genital system, nervous system, endocrine system, sense organs and musculoskeletal system of domesticated animals and birds
- 3.3.9 Pathological changes in diseases caused by bacteria, viruses, fungus and parasites of domesticated animals and birds

**प्रदेश लोक सेवा आयोग, मधेश प्रदेश**  
**कृषि सेवा, भेटेरिनरी समूह, अधिकृत साताँ तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।**

### **3.4 Veterinary Pharmacology and Toxicology**

- 3.4.1 Principles of drug activity, pharmacokinetics and pharmacodynamics
- 3.4.2 Anesthetics, hypnotics, sedatives, tranquilizers, analgesics, antiepileptics, histamines and antihistamines
- 3.4.3 Anaesthetics, Neuromuscular blocking agents, Peripheral and Central muscle relaxants
- 3.4.4 Drugs acting on central nervous system, autonomic nervous system, neurohumoral transmission, adrenergic antagonists, cholinergic antagonists
- 3.4.5 Drugs acting on cardiovascular system, digestive system, respiratory system, urogenital system and skin and mucus membrane
- 3.4.6 Endocrine pharmacology
- 3.4.7 Vitamins
- 3.4.8 Antibacterial agents, antibiotics, antifungal agents, anthelmintics, antiprotozoal agents, antiviral and anticancer agents
- 3.4.9 Cytotoxic and immunosuppressive drugs
- 3.4.10 Hormones, prostaglandins, corticosteroids
- 3.4.11 Toxicity caused by metals and nonmetals, plants, commonly used drugs, agrochemicals, venomous bites and stings and environmental toxicity

## **4. Pre-clinical subjects**

### **4.1 Veterinary Anatomy**

**16%**

- 4.1.1 Gross anatomy of skeletal system, muscular system, nervous system, digestive system, urogenital system, circulatory system, respiratory system, reproductive system, glandular system and sense organs of domesticated animals and poultry
- 4.1.2 Introduction to cell structure, cell division and basic tissue of body. Histology of the organs of musculoskeletal, digestive, respiratory, urinary, reproductive, nervous, cardiovascular, endocrine, lymphoid, sense organs of domesticated animals and birds
- 4.1.3 General embryology, gametogenesis, fertilization, and development of fetus and body organs in domesticated animals and birds

### **4.2 Veterinary Physiology**

- 4.2.1 General function and mechanism of action of various organs of circulatory, digestive, respiratory, urinary, reproductive, nervous, sensory system, endocrine system of domesticated animals and birds
- 4.2.2 Composition and function of tissue fluids
- 4.2.3 Mechanism of respiration and gaseous exchange

### **4.3 Biochemistry**

- 4.3.1 Biochemistry of respiration, renal function and acid base balance
- 4.3.2 Biochemistry of digestion and metabolism of carbohydrate, fat, protein, nucleic acid, minerals and trace elements
- 4.3.3 Basal and energy metabolism
- 4.3.4 Biochemistry of hormones and enzymes
- 4.3.4 Diagnostic biochemistry
- 4.3.5 Immunology

प्रदेश लोक सेवा आयोग, मधेश प्रदेश  
कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

- 4.3.6 Biochemistry of cellular and sub cellular components
- 4.3.7 Biochemistry of carbohydrate, lipids, proteins
- 4.3.8 Diagnostic biochemistry

#### **4.4 Animal Nutrition**

- 4.4.1 Animal feed classification, nutritional requirements, feeding system and feeding standards of farm animals and birds
- 4.4.2 Functions of various nutrients and process of digestion in ruminants, non ruminants and birds
- 4.4.3 Ration formulation for farm livestock and birds

#### **4.5 Livestock Production and Management**

- 4.5.1 Care and management of farm livestock and poultry during different production and growth stages
- 4.5.2 Housing system for animals and birds
- 4.5.3 Characteristics of different breeds of farm livestock and birds
- 4.5.4 System of breeding and selection in farm livestock and poultry birds
- 4.5.5 Dairy and poultry production

### **5. Regulatory functions**

**14%**

- 5.1 Out line of the World Trade Organization (WTOs), Sanitary and Phytosanitary (SPS) measures
- 5.2 Technical Barrier to Trade (TBT) Trade related aspects of Intellectual Property Rights (IPRs) agreement
- 5.3 Introduction to OIE, its objectives, function, structure, Standard setting procedures and different standards as set in Terrestrial Animal health code, Aquatic animal health code
- 5.4 Different standards for Biological preparation and standard Diagnostics Tests for various diseases of farm animals
- 5.5 Role of Official Veterinary Services in International Trade of animals, products of animal origin, food safety, import risk analysis, import permit
- 5.6 International Veterinary certifications, quarantine inspections and procedures
- 5.7 Animal Health Related Acts & Regulations
  - 5.7.1 Animal Health and Livestock Service Act and Regulation
  - 5.7.2 Slaughterhouse and Meat inspection Act and Regulation
  - 5.7.3 Nepal Veterinary Council Act, 2055 and Regulation, 2057
  - 5.7.4 Feed Act and Regulation
  - 5.7.5 Drug Act, 2035
  - 5.7.6 National Park and Wildlife Conservation Act
  - 5.7.7 Nepal Standard (Certification Mark) Act
  - 5.7.8 Animal health and livestock service professionals council act 2079 and regulation 2081
- 5.8 Legal Duties of a Veterinarian, Examinations of animals for soundness, injuries, and sudden death.
- 5.9 Animal welfare
- 5.10 Detection of Frauds, Malicious poisoning
- 5.11 Differentiation of different species of blood, serum, semen, hair, hide and bones

प्रदेश लोक सेवा आयोग, मधेश प्रदेश

कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

**द्वितीय पत्र (Paper II): Technical Subject**

**Section A - 30 Marks**

**1. Introduction** 20%

- 1.1 History and current status of veterinary services in Nepal
- 1.2 Current status of livestock production and production systems of livestock and poultry in Nepal
- 1.3 Indigenous and exotic breeds of livestock and poultry and their population in Nepal
- 1.4 Role of public and private sector in the promotion of veterinary services in Nepal
- 1.5 Recent GoN policies and plans related to livestock development, Provisions made by APP, ADS, Livestock Master Plan, Dairy development Plan and National and provincial Dairy Development Board for Livestock sector development

**2. Planning and management of veterinary/laboratory services** 10%

- 2.1 Management of veterinary investigation laboratory
- 2.2 Planning and management of district veterinary services, livestock production services and livestock product marketing services
- 2.3 Herd health management and disease prevention
- 2.4 National disease control program
- 2.5 Planning and management of veterinary projects

**Section B - 30 Marks**

**3. Animal health management** 30%

- 3.1 Etiology, diagnosis and treatment of systemic diseases of farm livestock, pets, equine and poultry
- 3.2 Definition, etiology, epidemiology, pathogenesis, symptoms, diagnosis, treatment and control of notifiable Trans-boundary animal diseases
- 3.3 Definition, etiology, epidemiology, pathogenesis, symptoms, diagnosis, treatment and control of economically important infectious diseases of farm livestock, pets, equine and poultry
- 3.4 Etiology, epidemiology, pathogenesis, symptoms, diagnosis, treatment and control of economically important of parasitic disease (ecto and endo parasites) of farm livestock, pets, equine and poultry
- 3.5 Current practices and importance of epidemiological reporting, and animal health information system
- 3.6 Outbreak investigation and epidemic control
- 3.7 Laboratory diagnosis of important diseases of animals and poultry
- 3.8 Prospects and constrains of vaccine production and use in Nepal
- 3.9 Veterinary drugs administration, their uses and abuses
- 3.10 Basic concepts of Livestock Emergency Guidelines and Standards (LEGS)

**Section C - 20 Marks**

**4. Zoonosis, animal production and Disease Management** 20%

- 4.1 Zoonotic disease of public health importance
- 4.2 General control measures against parasitic and infectious diseases of animals and birds
- 4.3 Management of production and metabolic diseases of farm livestock
- 4.4 Definition, etiology, diagnosis, treatment and management of sub-fertility, infertility, sterility and abortion in farm livestock under Nepalese condition
- 4.5 Importance of breeding management, A.I, and pregnancy diagnosis in farm animals

प्रदेश लोक सेवा आयोग, मधेश प्रदेश

कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

4.6 Reproductive disorder and its management in farm livestock

**Section D - 20 Marks**

**5. International standards, quality and regulations**

**20%**

5.1 Slaughter house management and meat inspection principles and procedures

5.2 Outline of the World Trade Organization (WTOs), Sanitary and Phytosanitary measures (SPS)

5.3 Introduction to OIE (World Animal Health Organization, its objectives, function, and its role in standard setting)

5.4 Role of Official Veterinary Services in International Trade of animals, products of animal origin, food safety, import risk analysis, import permit, International Veterinary certifications, quarantine inspections and procedures

5.5 Animal health related Acts & Regulations:

5.5.1 Animal Health and Livestock Service Act and regulation

5.5.2 Slaughterhouse and Meat inspection Act and regulation

5.5.3 Nepal Veterinary Council Act, 2055 and regulation, 2057

5.5.4 Feed Act and regulation

5.5.5 Drug Act

5.5.6 National Park and Wildlife Conservation Act

5.5.7 Nepal Standard (Certification Mark) Act

5.5.8 Animal health and livestock service professionals council act 2079 and regulation 2081

5.6 Legal Duties of a Veterinarian, Examinations of animals for soundness, injuries, and sudden death

5.7 Animal welfare

5.8 Detection of Frauds, Malicious poisoning

5.9 Differentiation of different species of blood, serum, semen, hair, hide and bones

**प्रदेश लोक सेवा आयोग, मधेश प्रदेश**  
**कृषि सेवा, भेटेरिनरी समूह, अधिकृत सातौं तहको खुला र अन्तर सेवा प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।**

प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र  
लिइने **सामूहिक परीक्षण (Group Test)** को लागि

**सामूहिक छलफल (Group Discussion)**

यस प्रयोजनको लागि गरिने परीक्षण १० पूर्णाङ्क र ३० मिनेट अवधिको हुनेछ जुन नेता विहिन सामूहिक छलफल (Leaderless Group Discussion) को रूपमा अवलम्बन गरिने छ। दिइएको प्रश्न वा Topic का विषयमा पालैपालोसँग निर्दिष्ट समय भित्र समूह बीच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नु पर्नेछ। यस परीक्षणमा मूल्याङ्कनको लागि देहाय अनुसारको ३ जनाको समिति रहनेछ ।

आयोगका अध्यक्ष वा सदस्य	-	अध्यक्ष
मनोविज्ञ	-	सदस्य
दक्ष/विज्ञ (१ जना)	-	सदस्य

**सामूहिक छलफलमा दिइने नमुना प्रश्न वा Topic**

उदाहरणको लागि - उर्जा संकट, गरीबी निवारण, स्वास्थ्य बीमा, खाद्य सुरक्षा, प्रतिभा पलायन जस्ता Topics मध्ये कुनै एक Topic मात्र दिइनेछ ।