

छत्तीसगढ़ लोक सेवा आयोग, रायपुर

क्रमांक 826/...12/2013/परीक्षा

रायपुर, दिनांक 18/06/2013

संक्षिप्त विज्ञापित/सूचना

छत्तीसगढ़ लोक सेवा आयोग द्वारा जारी विज्ञापन क्रमांक 01/2012/चयन दिनांक 21.12.2012 पशु चिकित्सा सहायक शल्यज्ञ, (पशु चिकित्सा एवं पशुधन विकास विभाग) के रिक्त पदों की पूर्ति हेतु लिखित परीक्षा दिनांक 29 सितंबर 2013 दिन रविवार को रायपुर में दो सत्रों में आयोजित की जाएगी। उपर्युक्त परीक्षा में सम्मिलित होने वाले अभ्यर्थियों को परीक्षा के समय स्वयं का एक फोटोयुक्त आई.डी. लाना अनिवार्य है। (विस्तृत विवरण परिशिष्ट-03 में उल्लेखित है।) फोटोयुक्त आई.डी. के अभाव में अभ्यर्थी को परीक्षा से वंचित किया जा सकेगा। उक्त परीक्षा के लिए परीक्षा योजना (परिशिष्ट-01) पाठ्यक्रम (परिशिष्ट-02) एवं समय सारणी निम्नानुसार है:-

समय सारणी

क्र.	दिनांक	समय	विषय
1	29.09.2013	प्रातः 10:00 से अपरान्ह 12:30 बजे	सामान्य अध्ययन, छ.ग. का सामान्य ज्ञान, बुद्धिमता परीक्षण
2	29.09.2013	अपरान्ह 02:00 से अपरान्ह 04:30 बजे	Veterinary Science

अवर सचिव
छ.ग. लोक सेवा आयोग,
रायपुर

परिशिष्ट 'एक'

"परीक्षा योजना"

- (1) परीक्षा दो चरणों में होगी, प्रथम चरण लिखित परीक्षा एवं द्वितीय चरण साक्षात्कार।

लिखित परीक्षा	—	600 अंक
साक्षात्कार	—	75 अंक
कुल	—	675 अंक

- (2) लिखित परीक्षा:-

(i) लिखित परीक्षा में वस्तुनिष्ठ प्रकार के दो प्रश्न पत्र निम्नानुसार होंगे:-

प्रश्न पत्र-I सामान्य अध्ययन

प्रश्नों की संख्या	150	2:30 घंटे	अंक 300
भाग 1 - सामान्य अध्ययन	—	—	50 प्रश्न (लगभग)
भाग 2 - छत्तीसगढ़ का सामान्य ज्ञान	—	—	75 प्रश्न (लगभग)
भाग 3 - बुद्धिमत्ता परीक्षण	—	—	25 प्रश्न (लगभग)
कुल	—	—	150 प्रश्न

प्रश्न पत्र-II Veterinary Science

प्रश्नों की संख्या	150	2:30 घंटे	अंक 300
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- (ii) लिखित परीक्षा के प्रश्न पत्र वस्तुनिष्ठ (बहु विकल्प प्रश्न) प्रकार के होंगे, प्रत्येक प्रश्न के लिये पांच संभाव्य उत्तर होंगे जिन्हें अ, ब, स, द और इ में समूहीकृत किया जाएगा जिनमें से केवल एक उत्तर सही/निकटतम सही होगा, उम्मीदवार को उत्तर पुस्तिका में उसके द्वारा निर्णित सही/निकटतम सही माने गये अ, ब, स, द या इ में से केवल एक पर चिन्ह लगाना होगा।

(iii) प्रत्येक सही उत्तर के लिए दो अंक प्राप्त होंगे। अभ्यर्थी केवल उन्हीं प्रश्नों के उत्तर दें जिनके संबंध में वे आश्वस्त हों कि वह उत्तर सही है। क्योंकि प्रत्येक गलत उत्तर पर एक अंक कम किया जाएगा। (कुल प्राप्त अंक (2R-W) होंगे जहां R = सही उत्तरों की संख्या एवं W = गलत उत्तरों की संख्या)

* यदि परीक्षार्थी द्वारा किसी प्रश्न के उत्तर विकल्पों में से एक से अधिक विकल्पों से संबंधित गोलों को पूर्णतः अथवा आंशिक रूप से काला किया जाता है तो संबंधित प्रश्न के उत्तर को गलत मानते हुए उसके लिए 01 अंक कम किया जाएगा।

* किसी प्रश्न के उत्तर विकल्पों में से किसी भी विकल्प से संबंधित गोले को काला नहीं करने पर संबंधित प्रश्न के उत्तर की जांच नहीं की जाएगी।

(iv) प्रश्न पत्र हिन्दी तथा अंग्रेजी में होंगे।

(v) पाठ्यक्रम की जानकारी परिशिष्ट-दो में दी गई है।

(vi) लिखित परीक्षा के अन्तर्गत उम्मीदवारों को प्रत्येक प्रश्न पत्र में कम से कम 33 प्रतिशत अंक प्राप्त करने होंगे। अनुसूचित जाति/अनुसूचित जनजाति/अन्य पिछड़ा वर्ग के उम्मीदवारों के मामले में अर्हकारी अंक केवल 23 प्रतिशत होंगे।

(3) साक्षात्कार के लिए आमंत्रित किये जाने वाले उम्मीदवारों की संख्या, विज्ञापन में दिए गए रिक्त स्थानों की संख्या से लगभग तीन गुनी होगी। केवल वे उम्मीदवार, जिन्हें आयोग द्वारा लिखित परीक्षा में अर्ह घोषित किया जावेगा, वे साक्षात्कार के लिए पात्र होंगे।

(4) साक्षात्कार:- साक्षात्कार के लिए 75 अंक होंगे (इसके लिए कोई अर्हकारी न्यूनतम अंक नहीं होंगे)।

(5) चयन सूची:- उम्मीदवार का चयन लिखित परीक्षा एवं साक्षात्कार में प्राप्त कुल अंकों के आधार पर गुणानुक्रम एवं प्रवर्गवार किया जाएगा।

परिशिष्ट 'दो'

"पाठ्यक्रम"

"प्रश्नपत्र-1"

सामान्य अध्ययन**भाग-1 सामान्य अध्ययन:-**

1. भारत का इतिहास, स्वतंत्रता आंदोलन एवं भारत का भूगोल।
2. भारत का संविधान, लोक प्रशासन एवं विधि।
3. भारत की अर्थव्यवस्था, पर्यावरण, जल, खनिज एवं वन संसाधन।
4. समसामयिक घटनाएं एवं खेलकूद।
5. सामान्य विज्ञान एवं कम्प्यूटर संबंधी सामान्य ज्ञान।

भाग-2 छत्तीसगढ़ का सामान्य ज्ञान:-

1. छत्तीसगढ़ का इतिहास एवं स्वतंत्रता आंदोलन में छत्तीसगढ़ का योगदान।
2. छत्तीसगढ़ का भूगोल, जल, खनिज संसाधन, जलवायु एवं भौतिक दृश्यां।
3. छत्तीसगढ़ की साहित्य, संगीत, नृत्य, कला एवं संस्कृति।
4. छत्तीसगढ़ की जनजातियां, बोली, तीज एवं त्यौहार।
5. छत्तीसगढ़ की अर्थव्यवस्था, वन एवं कृषि।
6. छत्तीसगढ़ का प्रशासनिक ढांचा, स्थानीय शासन एवं पंचायती राज।
7. छत्तीसगढ़ में मानव संसाधन एवं ऊर्जा संसाधन।
8. छत्तीसगढ़ में शिक्षा, स्वास्थ्य एवं समसामयिक घटनाएं।

भाग-3 बुद्धिमता परीक्षण:-

1. गणितीय योग्यता, बुद्धिमता परीक्षण एवं आंकड़ों का विश्लेषण।

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Annexure-II

SYLLABUS

Paper-II

(Veterinary Assistant Surgeon)

Different Terminologies used in applied Anatomy; Palpable anatomical body structures and their use in health and disease

All types of blood cells and their functions; ECG and its significance in Veterinary Sciences – Echocardiography; Fluid, water balance, fluid therapy, dehydration, water concentration mechanisms in livestock and birds

General principles of metabolism of carbohydrates, proteins, lipids, amino acids, nucleic acids, enzymes, vitamins and minerals; Biochemistry of blood and other body fluids; Veterinary clinical biochemistry

Definitions, basic concepts and scope of animal biotechnology; Molecular diagnosis including PCR and DNA probes; Hybridoma and monoclonal antibodies; new generation vaccines

General concepts of Pharmacology, toxicology, pharmacokinetics and pharmacodynamics; Drugs acting on digestive system, Cardiovascular system, respiratory system, urogenital system; Rumen pharmacology; Pharmacotherapeutics of hormones and vitamins; Drugs acting on skin and mucous membranes; central nervous system: Local anesthetics and peripheral muscle relaxants; Bio-enhancers, Immunostimulants and immunosuppressants; New drugs and drug formulations

Classification, general principles, chemotherapy and resistance of Antimicrobial agents, Anthelmintics, Antiprotozoal agents, Ectoparasiticides, Antiviral and anticancer agents

Sources and mode of action of poisons; Factors modifying toxicity; General approaches to diagnosis and treatment of poisoning; Toxicity caused by metal and non-metals, plants and weeds; Drug toxicity; Radiation hazards; Environmental and industrial toxicants; Toxicity caused by food additives and preservatives

General description of helminthes parasites affecting domestic animals and birds; Parasite (cestodes, trematodes and nematodes) specificity, pathogenicity and resistance of host in relation to species, breed, sex and location; Immunity against parasitic infections

General bionomics, life cycle, vector potential, pathogenesis, diagnosis, chemotherapy, immunoprophylaxis and general measures for control of important arthropods affecting animals and birds

Classification, morphology, Life cycle in relation to transmission, pathogenesis, diagnosis, chemotherapy, immunoprophylaxis and general measures for control of of different protozoan diseases

General microbiology; Host parasite relationship; Concepts in Veterinary and Medical Immunology; Immune system: organs, tissues and cells; Types of immunity; Development of humoral and cellular immune responses; Hypersensitivity; Serological reactions: Agglutination, precipitation, haemagglutination and haemagglutination inhibition; complement fixation, neutralization, ELISA, RIA and immunofluorescence. Biologicals: Role of conventional and modern vaccines in immunoprophylaxis, Quality control of biological; Adjuvant

Microbiology of Infectious agents (Bacteria, Rickettsia, Chlamydia, Viruses and Fungi) of animals and birds in relation to sources and transmission of infection, pathogenicity, virulence, diagnosis of infection, treatment, control and prophylaxis; Development of antimicrobial resistance

Laboratory diagnosis by identification of agents of Mastitis, Hemorrhagic septicemia, Enteric infections, Leptospirosis, Listeriosis, Brucellosis, Tuberculosis and Johne's disease, Clostridial infections, Wooden tongue and Lumpy jaw, Anthrax, Glanders, Aspergillosis, Candidiasis, Cryptococcosis and Dermatophytosis

General properties of DNA and RNA viruses in relation to their pathogenicity, diagnosis and prophylaxis; Diagnostic procedures for *Peste des petits ruminants*, Infectious bovine rhinotracheitis, Bovine virus diarrhea, Foot and mouth disease, Blue tongue, Sheep pox, Goat pox, Canine distemper, Rabies, Swine fever, Infectious bronchitis, Infectious bursal disease, Avian influenza and Marek's disease

General pathology; Post-mortem examination of large and small animals, recording of gross lesions and compiling the postmortem report (including vetero-legal cases), dispatch of morbid material in vetero-legal cases, study of gross specimens and histopathological slides pertaining to systemic pathology. Collection and examination of clinico-pathological specimens (blood, urine, body fluids, etc.) for diagnosis of systemic affections

General pathology of cardiovascular, hemopoietic, respiratory, digestive, excretory, male and female genital, musculoskeletal and nervous systems; Diseases of endocrine glands and sensory organ; Pathology of neoplastic diseases; Gross and histopathological examination of animals and birds suffering from bacterial, viral, fungal, protozoal and parasitic infections of veterinary importance; Post-mortem examination of large, small animals and birds for laboratory diagnosis of special diseases; Molecular diagnosis of animal and poultry diseases of veterinary importance

Food safety: definition, hazard analysis and critical control point (HACCP) system and chemical and microbial toxicities associated with milk, meat and aquatic food; Risk analysis: assessment and management and food safety measures; International and national food safety standards

Study about the classification of zoonoses and approach to their management; Role of domestic animals, wild animals, pet animals and laboratory animals as well as birds in transmission of important zoonoses; New, emerging, re-emerging and occupational zoonoses; Bio-safety; Stray and fallen animal management; Pollution due to industrial wastes

Principles of animal nutrition; Nutrient requirements and their metabolism in livestock and poultry nutrition; Importance of scientific feeding, Balanced ration and its characteristics; General principles of computation and formulation of rations and feeding of dairy cattle and buffaloes, sheep, goat and swine during different phases of growth, development and production (neonate, young, mature, pregnant, lactating and dry animals; breeding bull and working animals); Use of NPN compound in ruminants; Feed additives in ration of livestock and poultry; Feed stuffs and feed technology

Feeding standard their uses and significance, merit and demerits with reference to monogastric animals and poultry; Dietary principles and food patterns of human, pet and other animals

Principles of Genetics, Population genetics and Animal Breeding; Basis for classification of Indian and exotic of cattle, buffalo, sheep, goat, pig, poultry and ducks along with their important economic characters and adaptability for breeding purpose; Breeding/Selection techniques for optimal production. Selection: Response to selection and factors affecting it; Selection for combining ability

Breeding methods for the improvement of dairy cattle and buffaloes {crossbreeding, sire evaluation, field progeny testing, open nucleus breeding system (ONBS)}, sheep, goat, swine and poultry; Breed development; Conservation of germplasm, Current livestock and poultry breeding programs in the state and country

Identification of various breeds of cattle, buffalo, sheep, goat, pig and poultry; Livestock population and demographic distribution of different livestock in India

Body conformation and identification; Dentition and ageing of animals; Transport of livestock by rail, road, air and on foot; Common farm management practices; Introduction to methods of drug administration; Common vices of animals, their prevention and care; General principles of design, layout and construction of building for housing livestock

Management development and production (milk, meat and wool) in small and large holdings of dairy cattle, buffalo, small ruminants along with their feeding schedule during different stages of growth; Problems and prospects of dairy, meat and wool industry in India; Care and management of draft animals and breeding bulls

Storage of feeds and fodders; Scarcity fodders; Feed and fodder management for individual animals; Fodder production for small units through inter cropping or back yard cultivation; Recycling of animals washings and wastes in fodder production

Management of different categories of swine for optimal production: breeding and management of pregnant sows; Mating technique in swine; Housing of swine; Swine feeds and feeding; Economics of pig farming

Important economic traits of poultry; Low input technology; Backyard and semi intensive unit of various sizes, their description, management and economic achievements; Economic production of chicken and other classes of poultry; Hatching and feeding norms for different species of poultry. Care

and management of growing, laying/broiler birds of both breeders and commercial categories of poultry; Battery cage management different types and sizes; Poultry judging

Development of dairy industry in India, Clean milk production; Bacteriology and deterioration of milk; Pasteurization; Packaging and distribution of milk; Sanitation of milk plant

Pre-slaughter care, handling and transport of meat animals including poultry; Ante-mortem and post-mortem examination; Slaughtering and dressing of carcasses; Evaluation, grading and fabrication of dressed carcasses including poultry; Ageing of meat; Modern processing technologies of meat and meat products; Packaging of meat and meat products

Development and comparative study of female genitalia in domestic animals; Estrus detection, Aberrations of estrus and estrous cycle; Seasonal breeding; Pregnancy diagnosis methods in different species; Superfoetation and Superfecundation; Fertility, Infertility & sterility, Repeat breeding and reproductive health management; Clinical use of hormones in female infertility; Diagnosis and control of diseases and accidents during gestation, Abortion in domestic animals, Cervico-vaginal prolapsed; Termination of pregnancy; Parturition; Puerperium and involution of uterus in domestic animals; Care and management of dam and newborn

Dystocia; Types of dystocia - maternal & fetal- approach, diagnosis and treatment; Epidural & other anesthesia in obstetrical practice; Obstetrical operations; Injuries and diseases in relation to parturition; Postpartum diseases and complications; Animal birth control- ovario-hysterectomy and non surgical interventions

Development and comparative study of male genitalia in domestic animals; Forms of male infertility, Factors causing infertility in male, its diagnosis and treatment; Abnormalities, malformations diseases of male genitalia and coital injuries, diagnosis and treatment; Development ,advantages and disadvantages, storage and transport of semen; Artificial insemination techniques; Factors affecting quality of semen; Evaluation of semen quality

Asepsis-antisepsis, their application in veterinary surgery; Surgical risk and judgment; Management of shock, hemorrhage; Principles of fluid therapy in surgical patients; Differential diagnosis and surgical treatment of abscess, tumors, cyst, hematoma, necrosis, gangrene, burn; Wound: classification, symptoms, diagnosis and treatment; complications, treatment and prevention

Preanaesthetics considerations and preanaesthetics used in veterinary surgery; Anesthesia: local analgesia /anesthesia; General anesthesia, anesthetic agents, maintenance and monitoring of general anesthesia. Anesthetic emergencies and their management

Principles of viewing and interpreting X-ray films, classification of radiographic lesions; Contrast radiography; Principles, indications and contraindications of ultrasonography and its applications in veterinary surgery; Awareness on principles of radiation therapy

Surgical management of various affections of eye, ear, neck, horn, nose, oral cavity, esophagus, larynx, pharynx, locomotors apparatus; Surgical approaches in thoracic surgery, traumatic pericarditis, abdominal surgery, hernia, stomach, intestine, colon, rectum, uterus, penis etc.

Etiology, clinical manifestations, diagnosis, differential diagnosis, treatment prevention and control of diseases of cattle, buffalo, sheep, goat, horse, pig and pet animals, namely, diseases of digestive system with special reference to rumen dysfunction, diseases of stomach in non- ruminants; Affections of peritoneum, liver and pancreas; Diseases of respiratory and cardiovascular systems including blood and blood forming organs; Diseases of uro-genital system & lymphatic system; Emergency medicine and critical care

Definitions and aims of epidemiology; Factors influencing occurrence of livestock diseases and production; Transmission of disease; patterns of disease distribution; multifactorial causation of disease; Types of epidemiological studies; Cross-sectional and cohort studies, etc; Survey of animal diseases; Study about Surveillance and monitoring of livestock diseases; Strategies of disease management, prevention, control and eradication; National and international regulations on livestock diseases and Role of OIE

Epidemiology, Clinical manifestation, diagnosis, prevention and control of important bacterial, viral, fungal, protozoal and parasitic (cestodes, trematodes and nematodes) diseases of domestic animals and poultry

Etiology, clinical manifestations, diagnosis, differential diagnosis, treatment prevention and control of metabolic disorders/production diseases in domestic animals; Diagnosis and management of diseases caused by deficiency of vitamins and minerals in domestic animals and poultry

Definition of animal welfare and ethics; Role of veterinarians in animal welfare; Rules, regulations, laws on animal welfare; Prevention of Cruelty to Animals (PCA) Act, 1960; Role and function of Common offences against animals and laws related to these offences. Examination of living and dead animals in criminal cases; Legal aspects of examinations animals for soundness, injuries, PM examination and sudden death in animals

Philosophy and Principles of veterinary extension education; Methods and steps in extension teaching; Community development; Man-animal relationship (Society, Community, Association, institutions); Difference in livestock production practices of rural, urban and tribal communities including rearing patterns; Social change and factors of change; Social groups, its types and functions. Social transformation in relation to animal rearing; Evolution of veterinary and animal husbandry extension in India

Scope (production, consumption, exchange and distribution) of economic principles as applied to livestock; Organizational aspects, financial accounting and marketing of livestock in livestock and poultry farms

// परिशिष्ट-तीन //

आई.डी. हेतु आवश्यक दस्तावेज

अभ्यर्थी को लिखित परीक्षा/साक्षात्कार में प्रवेश पत्र के साथ ID Proof हेतु मतदाता पहचान पत्र/पासपोर्ट/ड्राइविंग लाइसेंस/पैन कार्ड/आधार कार्ड/स्मार्ट कार्ड (राष्ट्रीय जनसंख्या रजिस्टर की योजना के तहत आरजीआई द्वारा जारी)/स्वास्थ्य बीमा योजना स्मार्ट कार्ड फोटो सहित (श्रम मंत्रालय की योजना के तहत जारी)/जॉब कार्ड फोटो सहित (एनआरईजीए योजना के तहत)/सेवा पहचान पत्र फोटो सहित (राज्य/केन्द्र सरकार, सार्वजनिक क्षेत्र के उपक्रम, स्थानीय निकाय, पब्लिक लिमिटेड कंपनियों द्वारा अपने कर्मचारियों को जारी)/पासबुक एवं किसान पासबुक फोटो सहित (सार्वजनिक क्षेत्र के बैंक/डाकघर द्वारा जारी)/छात्र पहचान पत्र (स्कूलों/कालेजों द्वारा जारी)/बीपीएल परिवार को जारी राशन कार्ड/संपत्ति के दस्तावेज फोटो सहित जैसे-पट्टा, पंजीकृत डिड्स/एस.सी., एस.टी., ओ.बी.सी. प्रमाण पत्र फोटो सहित (सक्षम प्राधिकारी द्वारा जारी)/फोटो सहित पेंशन दस्तावेज, भूतपूर्व सैनिकों की पेंशन किताब, भूतपूर्व सैनिकों की विधवा या आश्रित प्रमाण पत्र, वृद्धावस्था पेंशन आदेश, विधवा पेंशन आदेश/शारीरिक विकलांग प्रमाण पत्र फोटो सहित में से एक दस्तावेज लाना आवश्यक होगा।
