

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

कृषि सेवा, लाइभस्टक, पोल्ट्री एण्ड डेरी डेभलपमेन्ट समूह, सातौं तहको पदको खुला तथा अन्तरतह प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

प्रथम चरण :-	लिखित परीक्षा (Written Examination)	पूर्णाङ्क :- २००
द्वितीय चरण :-	(क)सामूहिक परीक्षण (Group Test)	पूर्णाङ्क :- १०
	(ख) अन्तर्वार्ता(Interview)	पूर्णाङ्क :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण :लिखित परीक्षा (Written Examination) पूर्णाङ्क :- २००

पत्र	विषय	खण्ड	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या X अङ्क	समय
प्रथम	General Subject	Part I: General Awareness & General Ability 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 :सामूहिक परीक्षण (Group Test) र अन्तर्वार्ता (Interview) पूर्णाङ्क :- ४०

पत्र / विषय	पूर्णाङ्क	उर्तीर्णाङ्क	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 दुवै हुनेछ ।
- प्रथमपत्र र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत 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 एउटा 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) सोध्न सकिने छ ।
- द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जसुकै 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 ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति: २०८०।०६।०९

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प्रथम पत्र (Paper I): General Subject

Part (I) : - General Awareness & General Ability Test (50 Marks)

1. **General Awareness and Contemporary Issues** (25 ×1 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 and Gandaki Province
 - 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, organizational 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 Ability Test** (25 ×1 Mark = 25 Marks)
 - 2.1 **Verbal Ability Test** (8×1 Mark = 8 Marks)

Jumble words, Series, Analogy, Classification, Coding-Decoding, Matrix, Ranking Order Test, Direction and Distance Sense Test, Common Sense Test, Logical Reasoning, Assertion and Reason, Statement and Conclusions
 - 2.2 **Numerical Ability Test** (9×1 Mark = 9Marks)

Series, Analogy, Classification, Coding, Arithmetical reasoning/operation, Percentage, Ratio, Average, Loss & Profit, Time & Work, Data interpretation & Data verification
 - 2.3 **Non-verbal/Abstract Ability Test** (8×1 Mark = 8 Marks)

Figure Series, Figure Analogy, Figure Classification, Figure Matrix, Pattern Completion/Finding, Analytical Reasoning Test, Figure Formation and Analysis, Rule Detection, Water images, Mirror images, Cubes and Dice & Venn-diagram

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

- 1. LIVESTOCK DEVELOPMENT related plans, policies and acts 6%**
 - 1.1 Review of Agriculture Prospective Plan (APP) and Livestock Master Plan (LMP)
 - 1.2 Current five-year plan (National and Gandaki Province)
 - 1.3 Agriculture Development Strategy
 - 1.4 Animal health and livestock services Act, 2055 and Regulation, 2056
 - 1.5 Animal slaughterhouse and Meat Inspection Act, 2055 and Regulation, 2057
 - 1.6 Feed Act, 2033 and Regulation, 2041
 - 1.7 Agribusiness Promotion Act, 2077 (Gandaki)
 - 1.8 Dairy Development Board Act, 2075 (Gandaki)
 - 1.9 Livestock development approaches

- 2. ANIMAL NUTRITION 14%**
 - 2.1 Functions of water, proteins, fats, carbohydrates, minerals and vitamins in animal body and their requirements for different species of livestock and poultry - their sources and deficiency syndromes
 - 2.2 Intake, digestion, utilization and metabolism of various nutrients by ruminants and non-ruminants
 - 2.3 Factors affecting nutritive value of feed stuffs
 - 2.4 Feed additives – antioxidants, antibiotics, probiotics, antifungal, coccidiostat and growth promoters
 - 2.5 Utilization of crop and industrial by-products in poultry and livestock
 - 2.6 Feeds and feeding standards for each livestock and poultry species at different stages

- 3. PASTURE AND FODDER 26%**
 - 3.1 Morphology of pasture and fodder crops
 - 3.2 Classification of different types of pasture and fodder species
 - 3.3 Agronomical management of tropical, sub-tropical and temperate species of grasses and legumes such as stylo, berseem, oat, rye grass, soybean, sorghum, Para grass, broom grass, Centro, Napier, desmodium, vetch, clover, teosente, molasses, cowpea, velvet bean and kudzu etc.
 - 3.4 Nursery management of fodder tree species
 - 3.5 Agronomical management of fodder trees such as Badahar, Kutmiro, Tanki, Leucaena, Khannyo, Kimbu, Kabro, Pakhuri, Dabdabe, Bakaino etc.
 - 3.6 Different methods of forage conservation- hay, silage and their nutritive values
 - 3.7 Agro-forestry / Silvi-pasture in community and leasehold forestry, fruit orchard
 - 3.8 Principles and practices of forage seed production
 - 3.9 Seed (foundation and certified) production of different pasture and fodder species including fodder trees in different eco-zones
 - 3.10 Quality management of seed and methods of estimation

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4. ANIMAL BREEDING AND REPRODUCTION 20%

- 4.1 The cell and cell division
- 4.2 Segregation and recombination of genes
- 4.3 Expression of genes – additive and non-additive gene action, causes of variation in gene expression
- 4.4 Heritability and repeatability estimates
- 4.5 Breeding values, measure of genetic and phenotypic relationships
- 4.6 Principles of selection: Selection differential, selection response, selection intensity, generation interval, phenotypic, genetic and environmental correlation and genetic progress
- 4.7 Indigenous and exotic breeds of livestock and poultry and their characteristics
- 4.8 Animal genetic resource conservation and utilization.
- 4.9 Types of breeding: inbreeding, line breeding, outcrossing, outbreeding, crossbreeding
- 4.10 Anatomy of male and female reproductive organs of different species of livestock and poultry
- 4.11 Hormones of reproduction and their functions – estrous cycle, ovulation, fertilization, gestation and parturition; induction and synchronization of ovulation
- 4.12 Reproductive disorders and their corrective measures

5. LIVESTOCK AND POULTRY MANAGEMENT 24%

5.1 Husbandry

- 5.1.1 Housing and space requirement of different livestock and poultry
- 5.1.2 Different types of record maintenance of farm animals and poultry
- 5.1.3 Management of different stages of animal (young, pregnant, lactating, dry etc)
- 5.1.4 Management of livestock and poultry breeding stocks
- 5.1.5 Hatchery management- factors influencing hatching results
- 5.1.6 Management of chicks, growers and layers including broilers
- 5.1.7 Hygienic milk production
- 5.1.8 Current status of livestock products and productivity

5.2 Animal Health

- 5.2.1 Sanitation and prophylactic measures
- 5.2.2 External and internal parasites - their control measures
- 5.2.3 Symptoms, prevention and control measures of common livestock and poultry diseases - scour, mastitis, H.S., FMD, Calf pneumonia, bloat, PPR, black quarter, enterotoxaemia, foot rot, pox, swine fever, Ranikhet, Gumboro, Marecks, CRD, etc.
- 5.2.4 Zoonotic diseases and their importance to public health

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6. DAIRY

10%

- 6.1 Milk secretion phenomenon
- 6.2 Composition of milk of different livestock species
- 6.3 Factor affecting the composition of milk and milk quality
- 6.4 Nutritive value of milk with respect to different milk constituents
- 6.5 Physical and chemical properties of milk
- 6.6 Pasteurization and homogenization of milk
- 6.7 Legal standard of different dairy product in Nepal
