# नेपाल कृषि सेवा, लाइभस्टक, पोल्ट्री एण्ड डेरी डेभलपमेन्ट समूह, राजपत्रांकित तृतीय श्रेणीका पदको खुला प्रतियोगितात्मक 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) पूर्णाङ्ग :- ३०

# परीक्षा योजना (Examination Scheme)

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

पूर्णाङ्क :- २००

पत्र	विषय	खण्ड	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या ×अङ्	समय
प्रथम	General Subject	Part I: General Awareness & General Reasoning Test	900	8	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न ×१ अङ्ग	९ घण्टा ३० मिनेट
		Part II: General Technical Subject					५०प्रश्न ×१ अङ्	
द्वितीय	Technical Subject		900	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न x ५ अङ्ग ८ प्रश्न x१०अङ्ग	३ घण्टा

# द्वितीय चरण: सामूहिक परीक्षण (Group Test) र अन्तर्वार्ता (Interview)

पूर्णाङ्ग :- ४०

पत्र ⁄विषय	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली	समय
सामूहिक परीक्षण (Group Test)	90		सामूहिक छलफल (Group Discussion)	३० मिनेट
अन्तर्वार्ता (Interview)	<b>३</b> О		बोर्ड अन्तर्वार्ता(Board Interview)	-

#### द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- २. प्रथमपत्र र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- ३. वस्तुगत बहुवैकित्पक (Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रितशत अङ्क कट्टा गिरनेछ । तर उत्तर निदएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पिन गिरने छैन ।
- ४. बह्वैकिल्पिक प्रश्नहरु हुने परीक्षामा क्नै प्रकारको क्याल्क्लेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- ५. विषयगत प्रश्नहरुको 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 टिप्पणीहरु (Short notes) सोध्न सिकने छ ।
- ६. द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- ७. यस पाठ्यक्रम योजना अन्तर्गतका पत्र विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापिन पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु परीक्षाको मिति भन्दा ३ मिहना अगािड (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्कममा परेको सम्भन् पर्दछ ।
- ५. प्रथमचरणको परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- ९. यस भन्दा अगाडि लाग् भएका माथि उल्लेखित सेवा, समृहको पाठ्यक्रम खारेज गरिएको छ।
- १०. पाठ्यक्रम लाग् मिति : २०८०/०७/२०

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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 $(25 \times 1 \text{ Mark} = 25 \text{ Marks})$

- 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

 $(25 \times 1 \text{ Mark} = 25 \text{ Marks})$ 

2.1 **Logical Reasoning**  $(9 \times 1 \text{ Mark} = 9 \text{ Marks})$ 

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** $(8 \times 1 \text{ Mark} = 8 \text{ Marks})$

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

### 2.3 **Spatial Reasoning** $(8 \times 1 \text{ Mark} = 8 \text{ Marks})$

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

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#### Part (B): - General Technical Subject (50 Marks)

### 1. LIVESTOCK DEVELOPMENT related plans, policies and acts 6%

- 1.1 Livestock sector in Agricultural Perspective Plan (APP) and current fiveyear plan
- 1.2 Animal health and livestock services Act and Regulation
- 1.3 Animal slaughterhouse and Meat Inspection Act and Regulation
- 1.4 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

#### 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

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- 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 Types of breeding: inbreeding, line breeding, outcrossing, outbreeding, crossbreeding
- 4.9 Anatomy of male and female reproductive organs of different species of livestock and poultry
- 4.10 Hormones of reproduction and their functions estrous cycle, ovulation, fertilization, gestation and parturition; induction and synchronization of ovulation
- 4.11 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

#### 5.2 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

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