

लोक सेवा आयोग
नेपाल कृषि सेवाका एगू एक्सटेन्सन, हर्टिकल्चर, एग्रोनोमी, प्लान्ट प्रोटेक्सन, एगू. इको. एण्ड मार्केटिङ्ग र स्वायल साइन्स समूहका
राजपत्राङ्कित तृतीय श्रेणीका पदहरुको 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)	पूर्णाङ्क :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण : लिखित परीक्षा(Written Examination)

पूर्णाङ्क :- २००

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

द्वितीय चरण : सामूहिक परीक्षण (Group Test) र 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 दुवै हुनेछ ।
- नेपाल कृषि सेवाका एगू एक्सटेन्सन, हर्टिकल्चर, एग्रोनोमी, प्लान्ट प्रोटेक्सन, स्वायल साइन्स र एगू. इको. एण्ड मार्केटिङ्ग समूहका लागि प्रथम पत्रको पाठ्यक्रमको विषयवस्तु एउटै हुनेछ । तर एगू. इको. एण्ड मार्केटिङ्ग समूहका लागि द्वितीय पत्रको पाठ्यक्रमको विषयवस्तु फरक हुनेछ ।
- माथि उल्लिखित सबै समूहका लागि प्रथम पत्रको परीक्षा संयुक्त रूपमा एउटै प्रश्नपत्रबाट एकैदिन हुनेछ । तर द्वितीय पत्रको परीक्षा एगू एक्सटेन्सन, हर्टिकल्चर, एग्रोनोमी, प्लान्ट प्रोटेक्सन, स्वायल साइन्स समूह र एगू. इको. एण्ड मार्केटिङ्ग समूह गरी समूह अनुरूप अलग अलग दिनमा हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरुको 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 प्रश्न हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- विषयगत प्रश्नको 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) सोध्न सकिने छ ।
- द्वितीय पत्रमा(विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु 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 उम्मेदवारलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति : - २०८२/०७/२०

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
 - 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 ×1 Mark = 25 Marks)
 - 2.1 **Logical Reasoning** (9×1 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** (8×1 Mark = 8 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** (8×1 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 (B) : - General Technical Subject (50 Marks)

1. **History and Current Status of Agriculture Sector in Nepal** (5 marks)
 - 1.1 History of agricultural research and development in Nepal
 - 1.2 Overview of Nepalese agriculture: Current status and scope
 - 1.3 Institutional arrangement of agricultural research, extension and education in Nepal
 - 1.4 Agriculture Perspective Plan (APP) and its impact in Nepalese agriculture
 - 1.5 Devolution of agriculture extension system and its impact in agricultural development
2. **Agriculture Research, Extension and Education** (5 marks)
 - 2.1 Role of agriculture research in contemporary agriculture
 - 2.2 Nepal Agricultural Research Council (NARC) and its vision
 - 2.3 Agricultural education systems in Nepal
 - 2.4 Academic institutions such as AFU, PU, TU
 - 2.5 Non-academic institutions (CTEVT and its allied institutions)
 - 2.6 Major functions of agriculture research, extension and education in Nepal
 - 2.7 Linkage and coordination among research, extension and teaching in Nepal
 - 2.8 Public, private, NGOs, CBOs, agricultural co-operatives and farmer groups involvement in research, extension and education
 - 2.9 Participatory technology development, participatory planning, monitoring, evaluation and feedback
3. **Natural Resource, Environment Conservation, Climate Change and Disaster-Risk Management** (10 marks)
 - 3.1 Importance of natural resources conservation, utilization and management w. r. t. food security, employment generation and livelihood improvement in Nepal
 - 3.2 Bio-diversity and agro-biodiversity: Conservation and utilization for sustainable agriculture development
 - 3.3 Use of fertilizers and pesticides in agriculture and their implications to environment
 - 3.4 Integrated pest, crop, and plant nutrient management systems (IPM, ICM, IPNM) and Good Agricultural Practices (GAP)
 - 3.5 Environmental issues and sustainability of Nepalese agriculture
 - 3.6 Organic agriculture, and organic products for export promotion and food safety
 - 3.7 General climatic conditions of Nepal
 - 3.8 Weather observation and instruments use in Nepal
 - 3.9 Climate change and its impact in agriculture sector
 - 3.10 Climate change adaptation and mitigation strategies of Nepal
 - 3.11 Disaster (landslide, drought, flood, cold spell, earthquake, pest outbreak) management in agriculture

- 3.12 Rapid urbanization and change in land use pattern and their consequences in food security, environment conservation, employment generation and youth migration
- 3.13 Crop insurance in Nepal: Current policies and status
4. **Legislations, Plan, Policies, Strategies, and Global Trade in Agriculture** (10 marks)
- 4.1 Agriculture sector in current constitution
 - 4.2 Concept, goals, target and strategies of current periodic plan
 - 4.3 Planning , implementation, monitoring and evaluation of agricultural projects
 - 4.4 Local governance and its role in agricultural development
 - 4.5 National Agriculture Policy, 2061 (2004)
 - 4.6 Agro-biodiversity Promotion Policy, 2063 (2007) (first amendment, 2071)
 - 4.7 Agri-business Promotion Policy, 2063 (2006)
 - 4.8 Agriculture Development Strategy (ADS), 2015-2035 AD: vision, mission, target, components and its salient features, implementation status of ADS, supporting projects and institutional arrangement
 - 4.9 National Seed Vision, 2013-2025 and its implementation status
 - 4.10 Nepal Trade Integration Strategy (NTIS), 2016 - Agricultural commodities
 - 4.11 Agricultural Extension Strategy, 2061 (2003)
 - 4.12 Seeds Act, 2045 (1988) and Seeds Rules, 2069 (2013)
 - 4.13 Plant Protection Act, 2064 (2007) and Plant Protection Rules, 2066 (2010)
 - 4.14 Pesticides Management Act, 2076 (2019) and Regulation
 - 4.15 Fertilizer Control Order, 2055
 - 4.16 Food Right and Food Sovereignty Act, 2076 (2019)
 - 4.17 Food Safety Policy, 2076 (2019)
 - 4.18 Agro Forestry Policy, 2076 (2019)
 - 4.19 World Trade Organization (WTO), Agreement on South Asian Free Trade Area (SAFTA): their implication and impact in Nepalese agriculture
 - 4.20 Comparative advantage, agriculture commercialization and trading of Nepalese agricultural products.
 - 4.21 Implication of Sanitary and Phyto-sanitary (SPS) measures in Nepalese agricultural trade
5. **Agricultural Technology and Management** (20 marks)
- 5.1 Importance of technology generation, verification and dissemination in crop production and management
 - 5.2 Seed quality assurance: Seed production, laboratory testing, processing, handling, marketing and storage
 - 5.3 Variety release and registration system in Nepal
 - 5.4 Food and nutrition security: Concepts, status and dimensions
 - 5.5 Importance of pests and pesticides management
 - 5.6 Integrated Pest Management (IPM) concepts and strategies/practices
 - 5.7 Roles of pollinators in crop production

- 5.8 Importance of microbial agents (fungus, bacteria, nematodes and virus) in plant protection
- 5.9 Importance of crop diversification and commercialization in Nepal.
- 5.10 Precision and protected agriculture: Concepts and technologies
- 5.11 Agricultural crops for agro-forestry and environmental protection
- 5.12 Strategies for commercialization of high value low volume commodities
- 5.13 Concept of soil fertility and productivity
- 5.14 Essential plant nutrients and their sources (manures and fertilizers)
- 5.15 Soil reaction (pH) and soil reaction improvement
- 5.16 Concept of Integrated Plant Nutrient Systems (IPNS) and its significance
- 5.17 Contemporary agricultural extension practices in Nepal (plant clinic, mobile service, training and demonstration farm, farmer to farmer extension and pluralistic extension)
- 5.18 Role of information and communication technology (ICT) in agriculture development
- 5.19 Agricultural markets and marketing in Nepal
- 5.20 Agricultural Management Information System (AMIS) in Nepal
- 5.21 Agriculture Census, 2068
- 5.22 Linkage of agro-industries with agriculture production and marketing
- 5.23 Role of cooperatives in agriculture development in Nepal
- 5.24 Research methodology in agriculture (basic concepts, common designs and their application)
- 5.25 Trade liberalization and its implication in Nepalese agricultural product
- 5.26 Value chain development: concepts and practices in agriculture
- 5.27 Postharvest management of agricultural commodities
- 5.28 Farming system and sustainable agriculture development
- 5.29 Gender Equity and Social Inclusion (GESI) and women's role in Nepalese agriculture
- 5.30 Conservation agriculture: concept, principles and practices
