

लोक सेवा आयोग
नेपाल वन सेवाको जनरल फरेष्ट्री, नेशनल पार्क्स एण्ड वाइल्डलाइफ, फरेष्ट रिसर्च र स्वायल एण्ड वाटर कन्जरभेशन समूहका
राजपत्राङ्कित तृतीय श्रेणीका पदहरूको 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 ।
- प्रथमपत्र र द्वितीयपत्रको 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 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 उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले 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 ।
- यस भन्दा अगाडि लागू भएका माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
- पाठ्यक्रम लागू मिति : - २०८०/०७/२०

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. **Silviculture** (5 Marks)
 - 1.1 Common silvicultural terms
 - 1.2 Forest types of Nepal
 - 1.3 Concept and principle of forest ecosystem, normal forest and locality factors
 - 1.4 Silvicultural practices adopted for the management of different categories of forests (e.g. community forests, collaborative forests, block forest, leasehold forests, religious forests, plantation forests, natural forests)
 - 1.5 Seed collection, handling, storage and certification
 - 1.6 Principles and practices of natural and artificial regeneration, various techniques of plant propagation, plantation establishment at different sites, types of tending operation and forest rotations
 - 1.7 Principles and methods of tree improvement
 - 1.8 Silviculture of commercial tree species of Nepal
2. **Forest Management** (5 Marks)
 - 2.1 Understanding about common forest management terms.
 - 2.2 Principles and practices of management of different types of natural and manmade forests in general and in Nepal in particular
 - 2.3 Principles and practices of tree and forest measurement; diameter and height measurement; volume calculation of standing trees, logs and converted timber; measurement of growing stock and yield regulation
 - 2.4 Concepts and methods of timber stand improvement and shrubland management
 - 2.5 Protection of forests from fire, grazing, illegal felling, disease and pest, forest encroachment and invasive species
 - 2.6 Preparation and implementation of forest operational plan and forest management plans
 - 2.7 Principles and methods of community based forest and natural resource management systems in Nepal
 - 2.8 Contemporary issues in Community, collaborative and leasehold forestry
Methods and approaches to inventory of community forest and various NTFPs
3. **Forestry Research** (5 Marks)
 - 3.1 Concept and methods of experimental design (Blocking, replications, treatments, randomization)
 - 3.2 Designs used in forestry experiments- Randomized block design, Split plot design, factorial designs
 - 3.3 Statistical methods used in forestry research – statistical parameters, F-test, t- test, analysis of variance, covariance analysis, correlation and regression.
 - 3.4 Theory and principles of tree selection, progeny and provenance trial
 - 3.5 Tools and techniques of socio-economic surveys – PRA, RRA, D&D
 - 3.6 Preparation of simple experimental protocols for forestry research
 - 3.7 Theory and skills in review of literature, field data collection, analysis, report writing and referencing
4. **Forest resource surveying and mapping** (5 Marks)
 - 4.1 Forest statistics of Nepal

- 4.2 Principles and methods of forest sampling— size, intensity, unit, simple random sampling, stratified random sampling, systematic sampling
- 4.3 Principles of forest biometrics, tree and forest growth models, volume and yield tables
- 4.4 Principles, tools and techniques used in Remote Sensing, GIS and photo interpretation
- 4.5 Use of surveying and mapping instruments and preparation of forest maps
- 4.6 Theory and practice of National Forest Inventory and role of ground verification
5. **Soil Conservation (5 Marks)**
 - 5.1 Soil types, formation and profile, physical and chemical properties and classification
 - 5.2 Land use and land capability classification
 - 5.3 Concept of hydrological cycle
 - 5.4 Types of soil erosions and their preventive and control measures
 - 5.5 Soil and water conservation structures - breast walls, retention wall, check dams, ponds, slope stabilization, methods of top soil cover, roadside stabilization
 - 5.6 Bioengineering, Soil fertility and indigenous soil fertility management practices in Nepal
 - 5.7 Concepts and basics of soil loss assessment and soil analysis
6. **Watershed management (5 Marks)**
 - 6.1 Concept and approaches to sustainable watershed management
 - 6.2 Identification, planning and management of micro and macro watershed areas
 - 6.3 Interrelationship between forestry, agriculture, livestock and development & infrastructure activities with respect to integrated watershed management
 - 6.4 Early warning and prevention from natural hazards, measuring water discharge, water quality analysis and checking water runoff and erosions.
 - 6.5 Concept and approaches to water harvesting and conservation farming
 - 6.6 Agroforestry systems and practices in Nepal. Criteria for selection of fuelwood, fodder, bamboo and other NTFP species and their production techniques for rural income and employment for poverty reduction
 - 6.7 Participatory approaches to soil and watershed management
7. **Planning and management of National Parks and Protected Areas (5 Marks)**
 - 7.1 Concepts, approaches and evolution in Protected Area management systems
 - 7.2 Status and classification of Protected Areas in Nepal (National Park, Conservation Area, Hunting reserves, Wildlife Reserve, Buffer Zone)
 - 7.3 Preparation and implementation of management plans for different types of Protected Areas. Principles and practice of eco-tourism, visitors' management, conflict resolution and monitoring of Protected Areas and wildlife census
 - 7.4 Conservation education, motivation, communication, exhibition and public relations
 - 7.5 Fundamentals of ecosystems (population ecology, population density, carrying capacity, population census, predation, reintroduction and relocation)
8. **Management of specific habitat and biodiversity conservation (5 Marks)**
 - 8.1 Landscape level conservation and ecosystem services
 - 8.2 Approaches for in-situ and ex-situ biodiversity conservation at ecosystem, species and genetic level

- 8.3 Geographical distribution, habitat and behavior of common and endangered wild mammals, birds, reptiles, insects and fish in Nepal.
 - 8.4 Types of wildlife habitats, habitat analysis and management techniques
 - 8.5 General understanding about IUCN red list, Environmental Impact Assessment (including IEE)
 - 8.6 Strategy and Action Plans for the management of rare and endangered wildlife species of Nepal (including Tiger, Rhino, Elephant, Snow leopard, Pangolin, Red Panda, Gharial)
9. **Forest Utilisation** (5 Marks)
- 9.1 Non-timber forest products of economic importance in Nepal
 - 9.2 Forest based industries in Nepal
 - 9.3 Management, collection, processing and marketing of high value NTFPs in Nepal, value chain of high value wood and non wood products
 - 9.4 Role and function of private sector, cooperatives and parastatal institutions
 - 9.5 Scope and potential role of different forest products in poverty reduction
10. **Current Forestry Sector Policy, Strategy, Acts and Regulations** (5 Marks)
- 10.1 Forest Act, 2076 and Regulation, 2077
 - 10.2 Buffer Zone Management Regulations, 2052
 - 10.3 Environment Protection Act, 2076 and Regulation, 2077
 - 10.4 Soil and Water Conservation Act, 2039
 - 10.5 National Parks and Wildlife Conservation Act and Regulation
 - 10.6 National Biodiversity Strategy and Action Plan, 2014
 - 10.7 National Forest Policy, 2075 and Forest Sector Strategy, 2072
 - 10.8 REDD strategy, 2018
 - 10.9 Climate Change Policy, 2076 (2019)
 - 10.10 National Adaptation Plan of Action, 2010
 - 10.11 Nationally Determined Contributions, 2016
 - 10.12 CITES Act, 2073
 - 10.13 Wetland Policy, 2069
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