

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

कृषि सेवा, मत्स्य समूह, सातौं तहका 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	उत्तीर्णाङ्क	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	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 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 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 ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति : २०८०।०६।०९

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पाठ्यक्रम

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
 - 1.17 Food security and *sovereignty in constitution of Nepal*
 - 1.18 Local governance Act 2074.
 - 1.19 Gandaki Province: geography, demography, climatic conditions, natural resources, tourism, and livelihood & lifestyle of people
 - 1.20 Fisheries resources in Gandaki Province
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

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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. Aquaculture** **34%**
 - 1.1 History of fish culture in Nepal
 - 1.2 Present status and prospect of aquaculture in Nepal
 - 1.3 Principle of aquaculture
 - 1.4 Definition of fisheries and aquaculture
 - 1.5 Fish farm design and construction
 - 1.5.1 Planning
 - 1.5.2 Site selection
 - 1.5.3 Soil texture and quality
 - 1.5.4 Topography and layout of fish pond
 - 1.5.5 Pond and hatchery construction
 - 1.5.6 Water budgeting & sources of water
 - 1.6 Species selection for pond fish culture
 - 1.7 Cultivated indigenous & exotic fish species in Nepal
 - 1.8 Aquatic ecology in relation to fish production
 - 1.9 Ornamental fish production and management
 - 1.10 Hatchery management techniques
 - 1.10.1 Brood fish management
 - 1.10.2 Fish breeding (natural & induced)
 - 1.10.3 Nursing and rearing of hatchling, fry, fingerlings (fish) seed
 - 1.10.4 Transportation of hatchling, fry, fingerlings (fish) seed
 - 1.10.5 Feed and fertilizer
 - 1.10.6 Improvement by selection
 - 1.10.7 Hybridization
- 2. Introduction to Ichthyology** **16%**
 - 2.1 Definition of fish, economic importance of fish
 - 2.2 Taxonomy, economically important fishes of Nepal: General characters and classification of class Pisces
 - 2.3 Morphology of fish: external features, shape and shape and size, structure and functions of different organs
 - 2.4 Anatomy of fish: Study of location and functions of different organs
 - 2.5 Different organ systems: structure and functions
 - 2.5.1 Digestive system-structure and functions of alimentary canal
 - 2.5.2 Respiratory system- structure and function of gills
 - 2.5.3 Reproductive system- structure and functions of gonads
 - 2.6 Endocrine system related to reproduction
- 3. Water quality management in pond culture** **10%**
 - 3.1 Relationship between water quality parameter and fish production
 - 3.2 Planktons
 - 3.3 Aquatic weeds and its control
 - 3.4 Water quality management

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3.5 Water quality requirement for fish culture

- 4. Nutrition 10%**
- 4.1 Feed formulation
 - 4.2 Feed preparation and nutrition value
 - 4.2.1 Major nutrients
 - 4.2.2 Vitamin
 - 4.2.3 Essential minerals and amino acids
 - 4.3 Live food production for aquaculture and its culture methods
- 5. Fish health management 10%**
- 5.1 Common fish disease - causes, symptoms & species affected
 - 5.2 Types of general fish diseases - infections & non-infections
 - 5.3 Different methods of treatment: prevention, prophylaxis and treatment: sanitation of aquaculture equipment, quarantine and restriction of movements, curative measure: dip bath, flush, pond treatment
- 6. Post-harvest technology 6%**
- 6.1 Nutritional significance of fish production
 - 6.2 Quality control
 - 6.3 Methods of preservation and processing
 - 6.3.1 Fish drying
 - 6.3.2 Fish smoking
 - 6.3.3 Curing
 - 6.3.4 Fish chilling & refrigeration
 - 6.3.5 Transportation methods (Live fish transportation and other methods)
- 7. Capture Fisheries 14%**
- 7.1 Limnological studies
 - 7.2 Stock enhancement biodiversity conservation and management
 - 7.3 Freshwater ecology and consequences
 - 7.4 The effects of water resource development & human activities eg. Hydraulic works/illegal fishing, etc) on aquatic ecosystems & mitigation measures for the sustainable utilization of natural water bodies in Nepal
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