

लोक सेवा आयोग
नेपाल कृषि सेवा, फिसरिज समूह, राजपत्राङ्कित 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)	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
		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

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 ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको 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 (II) : - General Technical Subject (50 Marks)

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|---|------------|
| 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 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 Hatchery management techniques | |
| 1.9.1 Brood fish management | |
| 1.9.2 Fish breeding (natural & induced) | |
| 1.9.3 Nursing and rearing of hatchling, fry, fingerlings (fish) seed | |
| 1.9.4 Transportation of hatchling, fry, fingerlings (fish) seed | |
| 1.9.5 Feed and fertilizer | |
| 1.9.6 Improvement by selection | |
| 1.9.7 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 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 | |
| 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

- 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 equipments, 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
- 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