प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यऋम 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	उर्तीर्णाङ्क	परीक्ष	॥ प्रणाली	प्रश्नसंख्या x अङ्क	समय
प्रथम	General Subject	Part I: General Awareness & General Ability Test Part II: General Technical Subject	१००	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न x १ अङ्क ५० प्रश्न x १ अङ्क	१घण्टा ३० मिनेट
द्वितीय	Technical Subject		१००	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न x ५ अङ्क ८ प्रश्न x १०अङ्क	३ घण्टा

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

पूर्णाङ्क :- ४०

पत्र /विषय	पूर्णाङ्क	परीक्षा प्रणाली	समय
सामूहिक परीक्षण (Group Test)	१०	सामूहिक छलफल (Group Discussion)	३० मिनेट
अन्तर्वार्ता (Interview)	३ 0	बोर्ड अन्तर्वार्ता(Board Interview)	-

द्रष्टव्य :

- १. लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ।
- २. प्रथमपत्र र द्वितीयपत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ।
- वस्तुगत बहुवैकिल्पक (Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत
 अङ्क कट्टा गिरनेछ । तर उत्तर निदएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पिन गिरने छैन ।
- ४. बहुवैकल्पिक प्रश्नहरु हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- ५. 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 सिकने छ।
- ६. द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापिन पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु परीक्षाको विज्ञापन हुदाँको वखत (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठक्रममा परेको सम्भनु पर्दछ ।
- ८. प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ।
- ९. पाठयऋम लागू मितिः -

प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खला प्रतियोगितात्मक परीक्षाको पाठयक्रम

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 and Provincial periodic plan
- 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

2. General Ability Test

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

2.1 **Verbal Ability Test** (8 x 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

2.2 Numerical Ability Test (9 x 1 Mark = 9 Marks)

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 x 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

प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Part (II): - General Technical Subject (50 Marks)

1.	Aquacu	lture 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/integrated fish farm
	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 for carp fishes, rainbow trout, pangasius and
		tilapia
	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
		Feed and fertilizer
		Improvement by selection
	1.9.7.	Hybridization
	1.9.8.	Brood fish management and maintain its genetic quality
	1.9.9.	Quality control of brood fish by tagging
_		
2.		tion to Ichthyology 16%
		Definition of fish, economic importance of fish
		Taxonomy, economically important fishes of Nepal: General characters and
		classification of class Pisces
		Morphology of fish: external features, shape and shape and size, structure and
		functions of different organs
		Anatomy of fish: Study of location and functions of different organs
		Different organ systems: structure and functions
	2.5.1.	•
	2.5.2.	
	2.5.3.	
	2.6.	Endocrine system related to reproduction

प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

10%

3. Water quality management in pond culture

	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.	Nutritio	on	10%
	4.1.	Feed formulation	
	4.2.	Feed preparation and nutrition value	
	4.2.1	. Major nutrients	
	4.2.2	2. Vitamin	
	4.2.3	8. Essential minerals and amino acids	
5.	Fish hea	alth 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 1	
		curative measure: dip bath, flush, pond treatment	
	5.4.	Aquatic insects, predators (Birds, frog and snakes etc.) and its man	agement
6	Post-hai	rvest technology	6%
υ.	6.1.	Nutritional significance of fish production	0 70
	6.2.	Quality control	
	6.3.	Methods of preservation and processing	
	6.3.1		
	6.3.2		
	6.3.3		
	6.3.4		
	6.3.5		
	6.4.	Live fish	
7.	Capture	e Fisheries	14%
	7.1.	Limnological studies	
	7.2.	Stock enhancement biodiversity conversation and management	
	7.3.	Freshwater ecology and consequences	
	7.4.	The effects of water resource development & human activities e.g	-
		works/illegal fishing, etc.) on aquatic ecosystems & mitigation measures	sures for the
		sustainable utilization of natural water bodies in Nepal	

		 In the production of the production	

PPSC/Page 4

प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

द्वितीय पत्र (Paper II): Technical Subject

Section A-30 Marks

1.	Aquacul	lture Production Systems in Nepal	30%
	1.1 Aqu	aculture Practices	
	1.1.1	Cage fish culture	
	1.1.2	Enclosure fish culture	
	1.1.3	Raceway fish culture	
	1.1.4	Integrated fish culture	
	1.1.5	Rice fish culture	
	1.1.6	Bio floc fish culture	
	1.2 Aqu	aculture Systems	3
	1.2.1	Monoculture	
	1.2.2	Polyculture	
	1.2.3	Monosex culture	
	1.3 Aqu	aculture Techniques	
	1.3.1	Extensive	
	1.3.2	Semi-intensive	
	1.3.3	Intensive	
	1.3.4	Super-intensive Super-intensive	
		Section B-20 Marks	
2.	Manage	ment Practices in Aquaculture	10%
	2.1 Ma	nagement techniques in Nursery, Rearing and Production	n Ponds
	2.2 Ap	plication of feed, fertilizer and chemicals, liming and org	ganic manure in ponds
	2.3 Imp	portance of growth checkup	
	2.4 Wa	iter quality management	
	2.5 Rec	cord keeping	
3.	Natural	water Fisheries Programs	10%
	3.1 Imp	portance of bio-limnological study	
	3.2 En	vironmental factors and its effects to fish population	
	3.3 Fac	ctors affecting survival and migration of fish	
	3.4 Sto	ck enhancement, biodiversity, conservation & management	ent
		Section C-20 Marks	
4.	Fish bre	eding techniques	10%
		te selection and design for carps fishes, rainbow trout, pa	angasius and tilapia fish
		atchery	
		rood fish management	
		riteria for brood fish selection	
		atural breeding	
		emi-artificial breeding	
		duced breeding	
		pplication of hormones in induced breeding	
	4.8 In	cubation techniques	

4.9

Endocrine system related to reproduction

प्रदेश कृषि सेवा, फिसरिज समूह, अधिकृतस्तर सातौ तहका पदहरुको खला प्रतियोगितात्मक परीक्षाको पाठयक्रम

4.10 Fish	Physiology
-----------	------------

- 4.10.1 Physiological systems and osmoregulation
- 4.10.2 Function of different organ system (Digestive, Reproductive, Respiratory)

5. Fish Health Management

10%

- 5.1 Factors affecting fish health
- 5.2 Identification of fish diseases and parasites
- 5.3 Lab techniques
- 5.4 Treatment procedures/ Control mechanisms

Section D-30 Marks

6. Plan and policy

10%

- 6.1 Recent five years fisheries development plan
- 6.2 Recent policies in fisheries development
- 6.3 Present aquaculture status in Nepal
- 6.4 Agriculture prospective plan
- 6.5 6.3 Fisheries prospective plan

7. Aquaculture Extension

10%

- 7.1 Extension methodology, tools & communication systems
- 7.2 Participatory approach in planning, implementation and monitoring
- 7.3 Capacity building of farms and extension services
- 7.4 Pocket package program
- 7.5 Social mobilization, gender, integration and group dynamics
- 7.6 Public, Private, Cooperative, NGOs, CBOs, Partnership, Contract- out program

8. Miscellaneous

10%

- 8.1 Fish Marketing, Aquaculture economics and credit support system
- 8.2 जलचर संरक्षण ऐन, २०१७ तथा पशु स्वास्थ्य तथा पशु सेवा ऐन, २०५५ र नियमावली, २०५६, प्रदेश पशु स्वास्थ्य तथा पशु सेवा ऐन, २०७५
- 8.3 Fish insurance
- 8.4 Agro Tourism
- 8.5 Bio-security and Good management practices
