

प्रदेश लोक सेवा आयोग, प्रदेश नं.२
 आर्थिक योजना तथा तथ्याङ्क सेवा, तथ्याङ्क समूह, अधिकृत सातौं तहको खुला तथा अन्तर सेवा
 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 :- ९०
	(ख) अन्तर्वार्ता(Interview)	पूर्णाङ्क :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण : लिखित परीक्षा(Written Examination)

पूर्णाङ्क :- २००

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

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

पूर्णाङ्क :- ४०

पत्र /विषय	पूर्णाङ्क	उर्तीर्णाङ्क	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 छुटाछुटै 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 प्रश्नहरूका हकमा तोकिएको अंकका 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) सोधन सकिने छ ।
- द्वितीय पत्रमा(विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुटाछुटै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोहीखण्डका 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 भइ हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्भन्नु पर्दछ ।
- प्रथमचरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति : २०७८।०३।३० गते देखी ।

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
 - 1.17 Province no.2, Province Civil Service Act, 2077
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
 - 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

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

1.	Probability and Distribution	(6%)
1.1	Basic properties of probability	
1.2	Addition rule of probability	
1.3	Independent and mutually exclusive events	
1.4	Conditional probability	
1.5	Multiplication rule of probability	
2.	Random Variables	(14%)
2.1	Notion of random variable	
2.2	Probability distribution	
2.3	Binomial, Poisson and Normal distribution	
2.4	Mathematical expectation	
2.5	Distribution of independent random variables	
2.6	Notion of likelihood function	
3.	Mathematics for Statistics	(16%)
3.1	Rates, Ratios and Proportion	
3.2	Number system	
3.3	Logarithm	
3.4	Permutation and combination	
3.5	Principle of least square	
3.6	Rank of a matrix	
3.7	Inverse of a matrix	
3.8	Quadratic forms	
3.9	Eigen values	
4.	Descriptive statistics	(14%)
4.1	Measures of central tendency	
4.2	Measures of dispersion	
4.3	Measures of kurtosis	
4.4	Measures of skewness	
4.5	Measures of positional statistics: quartile, quintile, & decile	
4.6	Outliers and their consequences	
5.	Correlation and Regression	(10%)
5.1	Simple, partial and rank correlation	
5.2	Multiple correlation and coefficient of determination	
5.3	Simple and multiple regression	
5.4	Measures and tests of goodness of fit in regression	
5.5	Tests for normality in regression	
5.6	Logit models	
6.	Estimation	(4%)
6.1	Properties of a good estimator	
6.2	Methods of estimation	
6.3	Properties of maximum likelihood estimator	
6.4	Best linear unbiased estimator	
6.5	Interval estimation	
7.	Hypothesis testing	(6%)
7.1	Simple and composite hypothesis	
7.2	Type I and type II error	
7.3	Unbiased test	
7.4	Likelihood ratio test	

7.5	z, t, chi-square and F tests	
7.6	p value	
8.	Sampling methods and Distributions	(4%)
8.1	Simple random sampling	
8.2	Stratified random sampling	
8.3	Systematic sampling	
8.4	Standard errors	
8.5	Sampling distribution	
8.6	Distribution of sample mean	
8.7	Student's t and chi-square distribution	
9.	Time-series Analysis	(2%)
9.1	Trends, and seasonal & cyclical variations	
9.2	Autocorrelation and its test	
9.3	Forecasting	
10.	Economics	(4%)
10.1	Endogenous and exogenous variables	
10.2	Absolute and relative change	
10.3	Concept of marginal and elasticity	
10.4	Consumption function, saving, capital formation and capital output ratio	
10.5	Cobb-Douglas production function	
10.6	Gini Coefficients	
11.	Data collection and processing activities	(4%)
11.1	Data gathering process	
11.2	Questionnaire design	
11.3	Methods and techniques of data summarization/analysis	
11.4	Errors in surveys and censuses: Control and measurement of errors	
11.5	Quality evaluation of data	
12.	National accounts statistics of Nepal	(4%)
12.1	System of National Accounts (SNA) – Importance and uses	
12.2	Macro economic aggregates – Nominal and Real GDP, GNI, Consumption, Saving	
12.3	Province accounts statistics of Province no.2	
13.	Population statistics of Nepal	(4%)
13.1	Major sources of population data	
13.2	Population censuses of Nepal	
13.3	Composition and distribution of population	
13.4	Fertility, Mortality, Migration	
13.5	Population growth and population projection	
14.	Price and indexes	(4%)
14.1	Wholesale price, retail price, producers price	
14.2	Consumers Price Index (CPI)	
14.3	Agricultural Production Index	
14.4	Manufacturing Production Index	
14.5	Manufacturing Producers Price Index	
15.	Human development and poverty statistics	(4%)
15.1	Latest HD status and poverty situation of Nepal	
15.2	Sustainable Development Goals	
15.3	Major sources of poverty statistics	
15.4	Poverty measuring practices in Nepal	
15.5	Nepal Living Standard Survey (NLSS)	

द्वितीय पत्र (Paper II): Technical Subject

Section A – 20 Marks

1. Data Collection and Processing Activities

- 1.1 Data gathering process
- 1.2 Questionnaire design
- 1.3 Methods and techniques of data summarization/analysis
- 1.4 Errors in surveys and censuses: Control and measurement of errors
- 1.5 Quality evaluation of data

2. Sampling Methods and Distributions

- 2.1 Simple random sampling
- 2.2 Stratified random sampling
- 2.3 Systematic sampling
- 2.4 Cluster sampling
- 2.5 Standard errors
- 2.6 Sampling distribution
- 2.7 Distribution of sample mean
- 2.8 Student's t and chi-square distribution

3. Time-series Analysis

- 3.1 Components of time series
- 3.2 Autocorrelation and its test
- 3.3 Forecasting

Section B – 30 Marks

4. Economics

- 4.1 Endogenous and exogenous variables
- 4.2 Absolute and relative change
- 4.3 Concept of marginal and elasticity
- 4.4 Consumption function, saving, capital formation, capital output ratio
- 4.5 Cobb-Douglas production function

5. National Accounts Statistics of Nepal

- 5.1 System of National Accounts (SNA) – Importance and uses
- 5.2 Macroeconomic aggregates – Nominal and Real GDP, GNI, Consumption, Saving
- 5.3 Province Accounts Statistics of Province no.2

6. Price and Indexes

- 6.1 Wholesale price, retail price, producers price
- 6.2 Consumers Price index (CPI)
- 6.3 Agricultural Production Index
- 6.4 Manufacturing Production Index
- 6.5 Manufacturing Producers Price Index

7. Public Finance, Money and Banking Statistics

- 7.1 Major sources of data
- 7.2 Revenue statistics
- 7.3 Money and banking statistics
- 7.4 BOP

Section C – 30 Marks

8. **Agriculture, Fishery and Forestry Statistics of Nepal**
 - 8.1 Major sources of agricultural statistics
 - 8.2 Agricultural censuses
 - 8.3 Current agricultural statistics – importance and problems
 - 8.4 Food balance sheet
 - 8.5 Forestry statistics
 - 8.6 Objectives, targets and strategies of Agriculture Perspective Plan (APP)
9. **Industry, Trade and Service Statistics of Nepal**
 - 9.1 Major sources of data
 - 9.2 Censuses and surveys of manufacturing establishments
 - 9.3 Internal and international trade statistics
 - 9.4 Energy statistics
 - 9.5 Irrigation and water statistics
 - 9.6 Other establishment surveys
10. **Statistical System of Nepal**
 - 10.1 National statistical system
 - 10.2 Major statistical agencies
 - 10.2.1 Central Bureau of Statistics and its role as a central statistical agency
 - 10.2.2 Ministries and other government agencies related to statistical activities
 - 10.3 Statistical functions of Nepal Rastra Bank
 - 10.4 Statistical functions of universities and Non-governmental organizations
 - 10.5 Existing Statistical act and regulation
11. **Miscellaneous**
 - 11.1 Environment statistics
 - 11.2 Tourism statistics
 - 11.3 Gender statistics
 - 11.4 Data services
 - 11.5 Databank
 - 11.6 Electronic dissemination
 - 11.7 Introductory GIS
 - 11.8 Spatial data, digital data

Section D – 20 Marks

12. **Human Development and Poverty Statistics**
 - 12.1 Latest HD status and poverty situation of Nepal
 - 12.2 Sustainable Development Goals
 - 12.3 Major sources of poverty statistics
 - 12.4 Poverty measuring practices in Nepal
 - 12.5 Nepal Living Standard Survey (NLSS)
13. **Social Statistics**
 - 13.1 Major sources of social statistics
 - 13.2 Health Indicators
 - 13.3 GER, NER, and other educational statistics

14. Labor and Employment

- 14.1 Labor force, employment, underemployment, unemployment
- 14.2 Major sources of labour and employment statistics
- 14.3 Nepal Labour Force Surveys
- 14.4 ISIC, ISOC, NSOC
- 14.5 Child labour

15. Population Statistics of Nepal

- 15.1 Major sources of population data
- 15.2 Population censuses of Nepal
- 15.3 Composition and distribution of population
- 15.4 Fertility, Mortality, Migration
- 15.5 Population growth and population projection

प्रदेश लोक सेवा आयोग, प्रदेश नं. २
आर्थिक योजना तथा तथ्याङ्क सेवा, तथ्याङ्क समूह, अधिकृत सातौं तहका खुला तथा अन्तर सेवा प्रतियोगितात्मक
लिखित परीक्षाको पाठ्यक्रम

प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र लिइने
सामूहिक परीक्षण(Group Test) का लागि

सामूहिक छलफल (Group Discussion)

यस प्रयोजनका लागि गरिने परीक्षण १० पूर्णाङ्क र ३० मिनेट अवधिको हुनेछ जुन नेताविहिन सामूहिक छलफल (Leaderless Group Discussion) का रूपमा अवलम्बन गरिने छ। दिइएका प्रश्न वा Topic का विषयमा पालैपालोसँग निर्दिष्ट समयभित्र समूहवीच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नु पर्नेछ। यस परीक्षणमा मूल्याङ्कनका लागि ३ जना भन्दा बढीको समिति रहनेछ।