

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 :- 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		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					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 द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कटौत गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क कटौत 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) सोध्न सकिने छ ।
- द्वितीय पत्रमा(विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै 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 सम्झनु पर्दछ ।
- प्रथमचरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति : २०७८।०३।३० गते देखी ।

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प्रतियोगितात्मक परीक्षाको 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
 - 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

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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 समूहबीच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नु पर्नेछ । यस परीक्षणमा मूल्याङ्कनका लागि ३ जना भन्दा बढीको समिति रहनेछ ।