

**प्रदेश लोक सेवा आयोग, बागमती प्रदेश**  
**प्रशासन सेवा, विविध समूह, अधिकृत सातौं तहका तथ्याङ्कशास्त्री वा सो सरह पदहरूको खुला प्रतियोगितात्मक परीक्षाका**  
**पाठ्यक्रमहरू**

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

<b>प्रथम चरण :-</b>	लिखित परीक्षा (Written Examination)	पूर्णाङ्क :- २००
<b>द्वितीय चरण :-</b>	(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 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 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 । परिक्षार्थीले 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 ।
- यथासम्भव प्रश्नहरू नेपाल र बागमती प्रदेशको सन्दर्भमा सोधिने छन् ।
- प्रथमचरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीयचरणको परीक्षामा सम्मिलित गराइनेछ ।
- यस भन्दा अगाडि लागु भएका माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
- पाठ्यक्रम लागू मिति : २०७९/०८/११

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प्रथम पत्र (Paper I): General Subject

**Part (I) : - General Awareness & General Ability Test (50 Marks)**

1. नेपालको संविधान तथा सान्दर्भिक कानूनहरू: [10 ×1 Mark = 10 Marks]
  - 1.1 नेपालको संविधान
  - 1.2 कर्मचारी समायोजन ऐन, २०७५
  - 1.3 सार्वजनिक खरिद ऐन, २०६३
  - 1.4 सार्वजनिक खरिद नियमावली, २०६४
  - 1.5 प्रदेश सार्वजनिक खरिद नियमावली, २०७६
  - 1.6 भ्रष्टाचार निवारण ऐन, २०६४
  - 1.7 सम्पत्ती शूद्धिकरण ऐन, २०६४
  - 1.8 प्रदेश सूचनाको हक सम्बन्धी ऐन, २०७६
  - 1.9 प्रदेश सुशासन ऐन, २०७७
  - 1.10 संघ, प्रदेश तथा स्थानीय तहका निजामती सेवा सम्बन्धी कानूनहरू
2. **General Awareness and Contemporary Issues** [20 ×1 Mark = 20 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 Bagamati 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 Governance system and Government (Federal, Provincial and Local)
  - 1.9 Functional scope of public services
  - 1.10 Public Service Charter
  - 1.11 Concept, objective and importance of public policy
  - 1.12 Fundamentals of management: planning, organizing, directing, controlling, coordinating, decision making, motivation and leadership
  - 1.13 Government planning, budgeting and accounting system
3. **Major events and current affairs of national and international Importance** [4 X 1 Mark = 4 Marks]
4. **General Ability Test** [10×1 Mark = 10 Marks]
  - 4.1 **Verbal Ability Test**  
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
  - 4.2 **Numerical Ability Test**  
Series, Analogy, Classification, Coding, Arithmetical reasoning/ operation, Percentage, Ratio, Average, Loss & Profit, Time & Work, Data interpretation & Data verification
  - 4.3 **Non-verbal/Abstract Ability Test**  
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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5. नेपाली र अङ्ग्रेजी भाषा:

[6 X 1 Mark = 6 Marks]

5.1 English: Knowledge on writing correct English sentences, letters, and reports according to English grammar based on the following syntactic functions: [3 X 1 Mark = 3 Marks]

- a. Parts of Speech:
- b. Noun
- c. Pronoun
- d. Adjective
- e. Determiner
- f. Verb
- g. Adverb
- h. Preposition
- i. Conjunction and
- j. Interjection
- k. Infinitives and gerunds, reported speech and tenses

5.2 नेपाली: नेपाली भाषामा स्तरीय शुद्ध शब्द, वाक्यांश र वाक्य लेखनको लागि आवश्यक पर्ने ह्रस्व दीर्घ, व र व, तथा श, ष, स लगायतका व्याकरणगत शुद्ध लेखनशैलीमा केन्द्रित शुद्ध शब्द, वाक्यांश र वाक्य लेखनसहितको नेपाली भाषाको शुद्धाशुद्धिको ज्ञान [3 X 1 Mark = 3 Marks]

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

- 1. Probability and Distribution (3 Marks)**
  - 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 (7 Marks)**
  - 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 (8 Marks)**
  - 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 (7 Marks)**
  - 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 (5 Marks)**
  - 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 (2 Marks)**
  - 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 (3 Marks)**
  - 7.1 Simple and composite hypothesis
  - 7.2 Type I and type II error
  - 7.3 Unbiased test
  - 7.4 Likelihood ratio test

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- 7.5 z, t, chi-square and F tests  
7.6 p value
- 8. Sampling methods and Distributions (2 Marks)**  
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 (1 Marks)**  
9.1 Trends, and seasonal & cyclical variations  
9.2 Autocorrelation and its test  
9.3 Forecasting
- 10. Economics (2 Marks)**  
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 (2 Marks)**  
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 (2 Marks)**  
12.1 System of National Accounts (SNA) – Importance and uses  
12.2 Macro economic aggregates – Nominal and Real GDP, GNI, Consumption, Saving
- 13. Population statistics of Nepal (2 Marks)**  
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 (2 Marks)**  
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 (2 Marks)**  
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**
  - Data gathering process
  - Questionnaire design
  - Methods and techniques of data summarization/analysis
  - Errors in surveys and censuses: Control and measurement of errors
  - Quality evaluation of data
2. **Sampling Methods and Distributions**
  - Simple random sampling
  - Stratified random sampling
  - Systematic sampling
  - Cluster sampling
  - Standard errors
  - Sampling distribution
  - Distribution of sample mean
  - Student's t and chi-square distribution
3. **Time-series Analysis**
  - Components of time series
  - Autocorrelation and its test
  - Forecasting

**Section B – 30 Marks**

4. **Economics**
  - Endogenous and exogenous variables
  - Absolute and relative change
  - Concept of marginal and elasticity
  - Consumption function, saving, capital formation, capital output ratio
  - Cobb-Douglas production function
5. **National Accounts Statistics of Nepal**
  - System of National Accounts (SNA) – Importance and uses
  - Macroeconomic aggregates – Nominal and Real GDP, GNI, Consumption, Saving
6. **Price and Indexes**
  - Wholesale price, retail price, producers price
  - Consumers Price index (CPI)
  - Agricultural Production Index
  - Manufacturing Production Index
  - Manufacturing Producers Price Index
7. **Public Finance, Money and Banking Statistics**
  - Major sources of data
  - Revenue statistics
  - Money and banking statistics
  - BOP

**Section C – 30 Marks**

8. **Agriculture, Fishery and Forestry Statistics of Nepal**
  - Major sources of agricultural statistics
  - Agricultural censuses
  - Current agricultural statistics – importance and problems

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- Food balance sheet
  - Forestry statistics
  - Objectives, targets and strategies of Agriculture Perspective Plan (APP)
9. **Industry, Trade and Service Statistics of Nepal**
- Major sources of data
  - Censuses and surveys of manufacturing establishments
  - Internal and international trade statistics
  - Energy statistics
  - Irrigation and water statistics
  - Other establishment surveys
10. **Statistical System of Nepal**
- National statistical system
  - Major statistical agencies
    - Central Bureau of Statistics and its role as a central statistical agency
    - Ministries and other government agencies related to statistical activities
  - Statistical functions of Nepal Rastra Bank
  - Statistical functions of universities and Non-governmental organizations
  - Existing Statistical act and regulation
11. **Miscellaneous**
- Environment statistics
  - Tourism statistics
  - Gender statistics
  - Data services
  - Databank
  - Electronic dissemination
  - Introductory GIS
  - Spatial data, digital data

**Section D – 20 Marks**

12. **Human Development and Poverty Statistics**
- Latest HD status and poverty situation of Nepal
  - Sustainable Development Goals
  - Major sources of poverty statistics
  - Poverty measuring practices in Nepal
  - Nepal Living Standard Survey (NLSS)
13. **Social Statistics**
- Major sources of social statistics
  - Health Indicators
  - GER, NER, and other educational statistics
14. **Labor and Employment**
- Labor force, employment, underemployment, unemployment
  - Major sources of labour and employment statistics
  - Nepal Labour Force Surveys
  - ISIC, ISOC, NSOC
  - Child labour
15. **Population Statistics of Nepal**

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

**सामूहिक छलफल (Group Discussion)**

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

आयोगका सदस्य	-	अध्यक्ष
आयोगका सदस्य	-	सदस्य
मनोविज्ञ	-	सदस्य
दक्ष/विज्ञ (१ जना)	-	सदस्य

**सामूहिक छलफलमा दिइने नमुना प्रश्न वा Topic**

उदाहरणको लागि - उर्जा संकट, गरीबी निवारण, स्वास्थ्य बीमा, खाद्य सुरक्षा, प्रतिभा पलायन जस्ता Topics  
मध्येकुनै एक Topic मात्र दिइनेछ।