

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक 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 X अङ्क	समय	
प्रथम	General Subject	Part I: General Awareness & General Reasoning Test	१००	४०	वस्तुगत (Objective)	बहुबैकल्पिक प्रश्न (MCQs)	५० प्रश्न X १ अङ्क	१ घण्टा ३० मिनेट
		Part II: General Technical Subject					५० प्रश्न X १ अङ्क	
द्वितीय	Technical Subject		१००	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न X ५ अङ्क ८ प्रश्न X १० अङ्क	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)	३०	बोर्ड अन्तर्वार्ता (Board Interview)	-

द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुबै हुनेछ ।
- प्रथमपत्र र द्वितीयपत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- वस्तुगत बहुबैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर वापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस वापत अङ्क दिइने छैन र अङ्क कट्टा पनि गरिने छैन ।
- बहुबैकल्पिक प्रश्नहरू हुने परीक्षामा कुनै प्रकारको Memory युक्त विद्युतीय उपकरण जस्तै मोबाइल फोन, Calculator, Smart घडी जस्ता बस्तुहरू प्रयोग गर्न पाइने छैन ।
- विषयगत प्रश्नहरूको हकमा तोकिएको अंकको एउटा लामो प्रश्न वा एउटै प्रश्नका दुई वा दुईभन्दा बढी भाग (Two or more parts of a single question) वा एउटा प्रश्न अन्तर्गत दुई वा बढी टिप्पणीहरू (Short notes) सोध्न सकिनेछ ।
- द्वितीय पत्रमा विषयगत प्रश्न हुनेका हकमा प्रत्येक खण्ड Section का लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोही खण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जसुकै लेखिएको भएतापनि पाठ्यक्रममा परेका कानून ऐन नियम तथा नीतिहरू, यो पाठ्यक्रम स्वीकृत हुँदा कायम रहेकालाई यस पाठ्यक्रममा परेको सम्झनुपर्नेछ ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागु मिति :- २०८१/०६/१८

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक 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 periodic plan of Nepal and Lumbini 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 The Constitution of Nepal (From Part 1 to 5, 20 and 26 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 Province civil service act, 2080 and Province civil service Regulation, 2080
 - 1.12 Functional scope of public services
 - 1.13 Public Service Charter
 - 1.14 Concept, objective and importance of public policy
 - 1.15 Fundamentals of management : planning, organizing, directing, controlling, coordinating, decision making, motivation and leadership
 - 1.16 Government planning, budgeting and accounting system
 - 1.17 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

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Part (II) : - 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 and percentile
 - 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 Point and 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

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

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 Cluster Sampling.

8.5 Standard errors

8.6 Sampling distribution

8.7 Distribution of sample mean

8.8 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

10.7 Economic Census

11. Data collection and processing activities

2 Marks

11.1 Sources of data and methods of data collection

11.2 Questionnaire design

11.3 Methods and techniques of data processing/ 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 Economics Aggregates – Nominal and Real GDP, Provincial GDP of Lumbini, 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 and Degree of Urbanization

13.5 Population growth and population projection

13.6 Civil Registration and Vital Statistics (CRVS)

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 Multidimensional Poverty Index (MPI)

15.3 Sustainable Development Goals

15.4 Major sources of poverty statistics

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 15.5 Poverty measuring practices in Nepal
- 15.6 Nepal Living Standard Survey (NLSS)
- 15.7 Nepal Labour Force Survey (NLFS)

द्वितीय पत्र (Paper II): Technical Subject

Section A – 50 Marks

1. Data Collection and Processing Activities

- 1.1. Data Sources of data and methods of data collection
- 1.2. Questionnaire design
- 1.3. Methods and techniques of data processing/ 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

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
- 4.6. Gini coefficient
- 4.7. Economic Census

5. National Accounts Statistics of Nepal

- 5.1. System of National Accounts (SNA) – Importance and uses
- 5.2. Macroeconomic aggregates – Nominal and Real GDP, Provincial GDP of Lumbini Province, GNI, Consumption, Saving

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

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

7.4. Balance of payments (BOP)

Section B – 50 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. Agriculture Development Strategy (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. National Statistics Office (NSO) and its role as a central statistical agency
 - 10.2.2. Ministries and other government agencies related to statistical activities
 - 10.2.3. Statistical activities of province and local level government
- 10.3. Statistical functions of Nepal Rastra Bank
- 10.4. Statistical functions of universities and Non-governmental organizations
- 10.5. Existing Statistical act 2079 and regulation 2080, Lumbini Province Statistical act
- 10.6. National Strategy for Development of Statistics (NSDS)

11. Miscellaneous

- 11.1. Environment statistics and National Climate Change Survey.
- 11.2. Tourism statistics
- 11.3. Gender statistics
- 11.4. Data services
- 11.5. Databank
- 11.6. Electronic dissemination
- 11.7. GIS and Remote sensing
- 11.8. Spatial data, digital data
- 11.9. National Data Profile (NDP)

12. Human Development and Poverty Statistics

- 12.1. Latest HD status and poverty situation of Nepal
- 12.2. Multidimensional Poverty Index (MPI)
- 12.3. Sustainable Development Goals
- 12.4. Major sources of poverty statistics
- 12.5. Poverty measuring practices in Nepal
- 12.6. Nepal Living Standard Survey (NLSS)
- 12.7. Nepal Labour Force Survey (NLFS)

13. Social Statistics

- 13.1. Major sources of social statistics
- 13.2. Health Indicators and Nepal Multiple Indicator Cluster Survey (NMICS)
- 13.3. GER, NER, and other educational statistics

प्रदेश लोक सेवा आयोग, लुम्बिनी प्रदेश
प्रदेश निजामती सेवा तथा स्थानीय सरकारी सेवा अन्तर्गत प्रशासन सेवा, तथ्याङ्क समूह, अधिकृत स्तर
सातौं तह, तथ्याङ्क अधिकृत पदको खुला, अन्तर तह र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

14. Labor and Employment

- 14.1. Labor force, employment, underemployment, unemployment
- 14.2. Major sources of labour and employment statistics
- 14.3. ISIC, ISOC, NSOC
- 14.4. 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 and Degree of Urbanization
- 15.5. Population growth and population projection
- 15.6. Civil Registration and Vital Statistics (CRVS)

सामूहिक छलफल (Group Discussion)

प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र लिइने सामूहिक परीक्षण (Group Test) को प्रयोजनको लागि गरिने परीक्षणको पूर्णाङ्क १० र समय ३० मिनेटको हुने छ जुन नेताविहीन सामूहिक छलफल (Leaderless Group Discussion) को रूपमा अवलम्बन गरिने छ । दिइएको प्रश्न वा Topics का विषयमा पालैपालोसँग निर्दिष्ट समयभित्र समूहविच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नुपर्ने छ। यस परीक्षणमा मूल्याङ्कनको लागि देहाय अनुसारको समिति रहनेछ :

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

सामूहिक छलफलमा दिइने नमुना प्रश्न वा Topic

उदाहरणको लागि उर्जा सङ्कट, गरिबी निवारण, स्वास्थ्य बीमा, खाद्य सुरक्षा, प्रतिभा पलायन, प्राविधिक तथा व्यावसायिक शिक्षा, शैक्षिक गुणस्तर, महिला हिंसा, लागु औषध ओसार पसार, सार्वजनिक खरिद, मानव बेचबिखन रोकथाम आदि जस्ता विषयहरूमध्ये कुनै एक विषय मात्र दिइने