

लोक सेवा आयोग
नेपाल आर्थिक योजना तथा तथ्याङ्क सेवा, तथ्याङ्क समूह, राजपत्रांकित तृतीय श्रेणीका पदको खुला
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 × अङ्क	समय
प्रथम	General Subject	Part I: General Awareness & General Reasoning 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 । परीक्षार्थीले 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 ।
- 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 : २०८०/०७/२०

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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
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

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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

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- 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
- 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

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- 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)