

काठमाडौं महानगरपालिका  
स्थानीय प्रशासन सेवा, विविध, पाचौं तह, तथ्याङ्क सहायक पद  
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छः

प्रथम चरण:-	लिखित परीक्षा (Written Examination)	पूर्णाङ्क: १००
द्वितीय चरण:-	अन्तर्वार्ता (Interview)	पूर्णाङ्क: ३०

**परीक्षा योजना (Examination Scheme)**

प्रथम चरण: लिखित परीक्षा (Written Examination)

पूर्णाङ्क: १००

पत्र	विषय	पूर्णाङ्क	उतिर्णाङ्क	परीक्षा प्रणाली		प्रश्न संख्या * अङ्क	समय
प्रथम	सेवा सम्बन्धी कार्य ज्ञान (Job related functional knowledge)	100	40	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	* प्रश्न 50 अङ्क	45 मिनेट

द्वितीय चरण: अन्तर्वार्ता (Interview)

पूर्णाङ्क: ३०

विषय	पूर्णाङ्क	उतिर्णाङ्क	परीक्षा	समय
अन्तर्वार्ता (Interview)	30		अन्तर्वार्ता (Interview)	

प्रथम चरण: लिखित परीक्षा सेवा सम्बन्धी कार्य ज्ञान (Job related functional knowledge) को पाठ्यक्रमको एकाइबाट परीक्षामा यथासम्भव देहाय बमोजिम प्रश्नहरू सोधिने छ।

पाठ्यक्रम एकाइ	१	२	३	४	५	६	७	८	९	१०
प्रश्न संख्या	२	१०	४	२	४	८	८	६	४	२


**भाग (Part I):-**

**सेवा सम्बन्धी कार्य ज्ञान (Job related functional knowledge)**

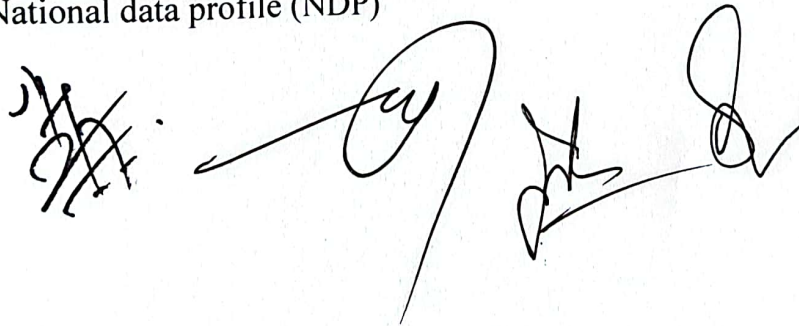
(५० प्रश्न\*२ अङ्क = १०० अङ्क)

- Introduction of Statistics
  - Introduction of statistics
  - Measurement and scaling
  - Presentation of data
  - Measures of central tendency and dispersion
  - Moments, skewness, and kurtosis
  - Correlation coefficient, rank correlation, regression coefficient
  - Exploratory data analysis (EDA)
- Introduction of Probability
  - Concept of Probability, Bayes' theorem

- 2.2 Theory of mathematical expectation and its properties
- 2.3 Discrete probability distributions - Binomial, Poisson distribution
- 2.4 Continuous probability distributions: Normal and exponential distribution
3. Applied Statistics
  - 3.1 Data collection techniques
  - 3.2 Methods of data summarization
  - 3.3 Theory of estimation
  - 3.4 Estimation of sample size
  - 3.5 Theory of hypothesis testing
  - 3.6 Parametric and non-parametric tests (t-test, z-test and chi-square test for independence of attributes)
4. Economic Statistics
  - 4.1 Index numbers (weighted and unweighted index numbers, cost of living index)
  - 4.2 Time series analysis (trend, seasonal variation, cyclic variation, irregular variation and methods of least square)
5. Sampling Theory and Design of Experiments
  - 5.1 Introduction of samples surveys
  - 5.2 Sampling methods ( SRS, Systematic sampling, Stratified sampling, PPS, Quota and Cluster sampling)
  - 5.3 Introduction to ANOVA
  - 5.4 Introduction to design of experiments
6. Demography and Vital Statistics
  - 6.1 Introduction to demography
  - 6.2 Population growth models
  - 6.3 Vital statistics
  - 6.4 Vital registration system in Nepal
  - 6.5 Population projection
7. Computer Application
  - 7.1 Concept, history, types of computer and computer fundamentals
  - 7.2 Microsoft office and database management system
  - 7.3 Concept of internet, intranet, extranet and e-mail
  - 7.4 Concept of statistical analysis Software and geographical information system
  - 7.5 Geographical information system and spatial methods
  - 7.6 Open data, big data, data bank, data mining, data warehouse
  - 7.7 Introduction and use of HMIS, IEMIS and ASYCUDA
  - 7.8 National Data Archive (NADA)
8. Major Statistical Operations in Nepal
  - 8.1 Concept, objectives, design, uses and major findings of the latest censuses: National Population census, agriculture Census, census of manufacturing establishments, Economic census
  - 8.2 Concept, objectives, sampling design, uses and major findings of the latest surveys: Nepal Living Standard Survey, Nepal Labor Force Survey, Nepal Multiple Indicators Cluster Survey, Nepal Demographic Health Survey, Household Budget Survey and others



9. System of National Account and Development Goals
  - 9.1 Concept and objectives of System of National Accounts, concept of GDP, GNP, GNI and GNDI
  - 9.2 Nepal standard industrial classification, Nepal standard occupational classification, Harmonized system codes, Central product classifications
  - 9.3 Sustainable development goals (SDGs) and indicators
  - 9.4 Human development index (HDI)
  - 9.5 Multidimensional poverty Index (MPI)
  - 9.6 Result indicators of periodic plan (Current)
  - 9.7 Government finance statistics
  - 9.8 Tourism statistics of Nepal
10. Statistics policy and plans
  - 10.1 Statistical act, 2015; statistics rules, 2041
  - 10.2 Consolidated national statistical plan of Nepal
  - 10.3 National strategy for the development of statistics (NSDS)
  - 10.4 National data profile (NDP)

The image shows three handwritten signatures or initials in black ink. The first one on the left is a stylized, somewhat illegible signature. The second one in the middle is a large, flowing signature. The third one on the right is a signature with a distinct circular flourish at the end.