

लोक सेवा आयोग

नेपाल विविध सेवा, राजपत्राङ्कित तृतीय श्रेणी, टेक्सटाइल इन्जिनियर 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 द्वितीयपत्रको 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 एउटा 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 सोही खण्डको 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 ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- यस भन्दा अगाडि लागू भएका माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
- पाठ्यक्रम लागू मिति : - २०८०/०७/२०

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

Part (II) : - General Technical Subject (50 Marks)

Section A- 30% Marks

1. Textile in general

- 1.1 Terminology relating to textile
- 1.2 Fiber production, spinning, weaving, dyeing, printing and finishing
- 1.3 Metric units of measurement and their conversion to other system of units

2. Textile Fibers

- 2.1 Fiber classification
- 2.2 Method of identification of textile fibers
- 2.3 Properties of textile fibers
- 2.4 Uses of textile fibers

3. Yarn production

- 3.1 Types of yarns and their classification
- 3.2 Different kinds of yarn processing systems
- 3.3 New methods of yarn manufacturing
- 3.4 Process flow of spinning process and their functions
- 3.5 Properties of yarn
- 3.6 Spinning machineries

Section B- 30% Marks

4. Fabric Production

- 4.1 Types of fabric, classification and definition
- 4.2 Methods of fabric production (Woven, Knitted and Non-woven)
- 4.3 Production process of fabric and their function
- 4.4 Properties of fabric
- 4.5 Fabric production machineries
- 4.6 Fabric structure and design
- 4.7 Defects in fabric

5. Dyeing, Printing and Finishing

- 5.1 Classification and application of dyestuffs
- 5.2 Preparation of fabric for dyeing/printing (Singing, de-sizing, scouring, bleaching, mercerization)
- 5.3 Dyeing Methods and machineries
- 5.4 Testing of dyed textile materials
- 5.5 Identification of different kinds of dyestuffs
- 5.6 Printing methods and machineries
- 5.7 Finishing method and machineries
- 5.8 Special finishes
- 5.9 Chemicals used in dyeing, printing and finishing
- 5.10 Color theory and its application on textiles

Section C- 20% Marks

6. Testing of Textile Materials

- 6.1 Testing of Fiber
- 6.2 Testing of Yarn
- 6.3 Testing of Fabric dimension and properties
- 6.4 Fastness testing of fabric (Washing, rubbing, light and Perspiration).

7. Standardization and quality control

- 7.1 Basic concept
- 7.2 Importance of standardization for textile materials
- 7.3 Quality control activities in textile industries
- 7.4 Basic concept of ISO 9000 (Quality Management System)
- 7.5 Statistical quality control
- 7.6 Calibration of equipments

8. Industrial Environment

- 8.1 Major Pollution in textile industries
- 8.2 Environmental performance and evaluation
- 8.3 Treatment of different types of waste generated from textile industries
- 8.4 Basic concept of Cleaner Production (Waste minimization)
- 8.5 Occupation Health and Safety measure in textile industries
- 8.6 Basic Concept of Environmental Management System EMS ISO 14001
- 8.7 Eco-labeling for textile product and processes.
- 8.8 Industrial production, lay out, planning and design

Section D – 20 % Marks

9. Existing Legislations

- 9.1 Industrial Policy
- 9.2 Industrial Enterprise Act
- 9.3 Industrial Enterprise Regulation
- 9.4 Foreign Investment and Technology Transfer Act
- 9.5 Nepal Standard (Certification Mark) Act,
- 9.6 Nepal Standard (Certification Mark) Regulation
- 9.7 Standard weights and measurements Act
- 9.8 Standard weights and measurements Regulation
- 9.9 Environment Protection Act
- 9.10 Environment Protection Rules

10. Textile Industries in Nepal

- 10.1 Past and current status of textile industries in Nepal
- 10.2 Contribution of Nepalese textile industries (Carpet, Pashmina, Woolen garments, readymade garments etc.) in national economy
- 10.3 Nepalese Industry associations related to manufacturing and trading of textile products
- 10.4 Industrial statistics
- 10.5 Export potential of Nepalese textile products including garments and carpets