

लोक सेवा आयोग  
नेपाल विविध सेवा, राजपत्रांकित द्वितीय श्रेणी, बरिष्ठ टेक्सटाइल अधिकृत पदको खुला र आन्तरिक  
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम  
द्वितीय पत्र : प्राविधिक विषय

**1. Introduction to Textile Fibers, Yarns and Fabrics**

- 1.1 Textile fibers : properties and uses
- 1.2 Natural, synthetic, regenerated and special textile fiber
- 1.3 Method of identification of textile fibers
- 1.4 Types of yarns and their classification, properties of yarn
- 1.5 Types of fabric, classification and properties of fabric
- 1.6 Textile terminologies
- 1.7 Textile design for sustainability and fashion
- 1.8 Medical textile

**2. Textile Production and its Processes**

- 2.1 Fiber production
- 2.2 Yarn production : different kinds of yarn processing systems, new methods of yarn manufacturing, process flow of spinning process and their functions
- 2.3 Fabric production : methods of fabric production, production process of fabric and their function, fabric structure and design, defects in fabric
- 2.4 Dyeing methods, classification and application of dyestuffs
- 2.5 Printing methods
- 2.6 Finishing method, special finishes
- 2.7 Chemicals used in dyeing, printing and finishing
- 2.8 Color theory and its application on textiles
- 2.9 Utilising nanotechnology in textile production

**3. Textile Machineries and their Maintenance**

- 3.1 Spinning machineries
- 3.2 Weaving machineries
- 3.3 Knitting machineries
- 3.4 Dyeing machineries
- 3.5 Printing machineries
- 3.6 Finishing machineries

लोक सेवा आयोग  
नेपाल विविध सेवा, राजपत्रांकित द्वितीय श्रेणी, बरिष्ठ टेक्सटाइल अधिकृत पदको खुला र आन्तरिक  
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

**4. Testing of Textile Materials**

- 4.1 Testing of fiber
- 4.2 Testing of yarn
- 4.3 Testing of fabric
- 4.4 Identification of different kinds of dyestuffs
- 4.5 Testing of dyed textile materials
- 4.6 Textile testing equipment and its calibration
- 4.7 Wool and pashmina/cashmere fiber testing

**5. Standardization and Quality Control in Textile Production**

- 5.1 Importance of standardization for textile materials
- 5.2 Quality control activities in textile industries
- 5.3 Quality control of yarn
- 5.4 Quality control of fabric
- 5.5 Quality control of dyeing, printing and finishing
- 5.6 Concept of ISO 9000 (Quality Management System)
- 5.7 Statistical quality control

**6. Industrial Environment and Textile Industries in Nepal**

- 6.1 Industrial production, lay out, planning and design
- 6.2 Major pollution in textile industries
- 6.3 Treatment of different types of waste generated from textile industries
- 6.4 Cleaner Production (waste minimization)
- 6.5 Basic Concept of Environmental Management System (EMS) ISO 14001
- 6.6 Eco-labeling for textile product and processes
- 6.7 Occupational health and safety measure in textile industries
- 6.8 Past and current status of textile industries in Nepal and global scenario
- 6.9 Contribution of Nepalese textile industries (carpet, pashmina, woolen garments, readymade garments) in national economy
- 6.10 Labelling of textile material

.....