

**द्वितीय पत्र (Paper I): General Subject**

**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 (Sizing, 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

लोक सेवा आयोग  
नेपाल विविध सेवा, राजपत्राङ्कित तृतीय श्रेणी, टेक्सटाइल इन्जिनियर पदको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र  
लिइने सामूहिक परीक्षण (Group Test) को लागि

### सामूहिक छलफल (Group Discussion)

यस प्रयोजनको लागि गरिने परीक्षण १० पूर्णाङ्क र ३० मिनेट अवधिको हुनेछ जुन नेताविहिन सामूहिक छलफल (Leaderless Group Discussion) को रूपमा अवलम्बन गरिने छ। दिइएको प्रश्न वा Topic का विषयमा पालैपालोसँग निर्दिष्ट समयभित्र समूहबीच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नु पर्नेछ। यस परीक्षणमा मूल्याङ्कनको लागि देहाय अनुसारको ३ जना भन्दा बढीको समिति रहनेछ।

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

### सामूहिक छलफलमा दिइने नमुना प्रश्न वा Topic

उदाहरणको लागि - उर्जा संकट, गरीबी निवारण, स्वास्थ्य बीमा, खाद्य सुरक्षा, प्रतिभा पलायन जस्ता Topics मध्ये कुनै एक Topic मात्र दिइनेछ।