

**RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**  
**SYLLABUS FOR COMPETITIVE EXAMINATION FOR THE**  
**POST OF ASSISTANT PROFESSOR IN HOME SCIENCE**  
**(CLOTHING TEXTILE) FOR COLLEGE EDUCATION**  
**DEPARTMENT**

**PAPER-I**

**Section-1:-Textile fibres-**

1. Origin, Classification and Manufacturing process of Textile Fibres.
2. General, Physical and Chemical Properties of natural, man-made and regenerated fibres.
  - Natural- All natural sources- Cellulosic, Protein, Mineral.
  - Regenerated- Rayon
  - Man-made- Nylon, Polyester, Acrylic, Olefin, Elastomeric, Metallic.
3. Blended Fabrics.

**Section-2:-Yarn Construction-**

1. Classification of yarns, yarn count, ply and twist.
2. Spinning- Mechanical and Chemical.
3. Types of yarn.

**Section-3:-Fabric Construction-**

1. Basic loom, parts and operations
2. Types of Looms
3. Process of Fabric Construction
  - Weaving- Types of weaves, Knitting, Braiding, Felting, Bonding And Knotting etc.

**Section-4:-Finishing, Dyeing and Printing-**

1. Meaning, Purpose and Objectives of finishing.
2. Classification of Finishes.
3. Classification Dyes,
  - Chemistry of Dyes and Pigments- Composition, properties, affinity towards fibres, method of application, fixing, after treatment and fastness properties.
4. Methods of Printing
  - Manual
  - Mechanical

## **Section-5:-Textile Testing and Quality Control-**

1. Textile Testing- Breaking, bursting, tearing strength and tensile strength.
2. Quality Analysis- Weaves, ends, picks, count, weight, thickness, porosity, air permeability, thermal conductivity and dimensional stability.
3. Fabric Properties Analysis- Crease, recovery, stiffness, drapability, perspiration, pilling, abrasion and colour fastness.
4. Labelling- Types of Labels and purpose.

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**Note :- Pattern of Question Paper**

1. **Objective type paper**
2. **Maximum Marks : 75**
3. **Number of Questions : 150**
4. **Duration of Paper : Three Hours**
5. **All questions carry equal marks.**
6. **Medium Competitive of Exam: Bilingual in English & Hindi**
7. **There will be Negative Marking.**