



RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR IN TEXTILE-DYEING AND PRINTING FOR COLLEGE EDUCATION DEPARTMENT

PAPER-I

Unit: 1-

- Production, processing, composition and properties of textile fibers.
- Impurities in raw cotton, wool, silk and bast fiber.
- Elementary knowledge of textile auxiliaries.
- Objects of different processes involved, e.g. singeing, desizing, scouring, bleaching and mercerization.
- Introductory knowledge of machinery used in pre-treatments of cotton fabric.

Unit: 2-

- Definition and classification of dyes and dyeing.
- Application of Pigments, Direct, Reactive, Vat, Sulphur and Azoic dyes on cellulosic fiber and Classification of acid dyes, its application on wool and silk fiber.
- Selection of dyes for synthetic fiber and application on Nylon, Polyester and Acrylic fibers.

Unit: 3-

- Methods of yarn construction, Yarn numbering system- Count, Denier, Tex.
- Types of yarn, Yarn twist, Yarn defect.
- Components and characteristics of woven fabrics.
- Mechanism of weaving- Parts of loom, Yarn preparation for weaving, Basic Weaving operation.
- Types of looms- Handloom, Power loom, Shuttle less loom.

Unit: 4-

- Dyeing machineries for fibre, yarn and fabric.
- Measurement of fastness properties e.g. washing, rubbing, light and perspiration.

Unit: 5-

- Definition of finishing and classification of various types of finishes.
- Finishing of cotton, Wool, Silk and Manmade Fibers.
- Important finishing treatments like Calendaring, Organdie, Sanforization, water repellency and anticrease finishes.

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 of Competitive Exam: Bilingual in English & Hindi
- 7. There will be Negative Marking.