## RAJASTHAN PUBLIC SERVICE COMMISSON, AJMER

# Syllabus for Screening Test for the post of Lecturer - Textile Designing Technical Education Department

## **Part-I Introduction to Textiles:**

(i)	Fibre	٠.

- (a) Definition, Classification & Identification of Textile fibers.
- (b) Properties of various textile fibers.
- (c) Uses of different textile fibers in textiles & other than textiles.

#### (ii) Yarn:

- (a) Processing of fibers into yarn.
- (b) Types & Characteristics of different yarns.
- (c) Count measuring systems.

## (iii) <u>Finishing Techniques:</u>

- (a) Need for fabric finishing
- (b) Classification & application of important finishing techniques.

#### (iv) **Miscellaneous:**

- (a) Co-relation of fiber, yarn & fabric properties.
- (b) Selection, suitability & care of textiles.
- (c) General importance of textiles.

## Part- II Dyeing & Printing:

- 1. Meaning & classification of dyes.
- 2. General theory of dyeing & importance of auxiliaries in dyeing & printing.
- 3. Pretreatments for dyeing & printing.
- 4. Detail study of different type of dyes & pigments & application on various single & blended fabrics.
- 5. Preparation of printing paste.
- 6. Detail study of different methods & styles of printing.
- 7. After treatments for dyed & printed fabrics.
- 8. Colour fastness testing.
- 9. Elementry knowledge of related basic machines & equipments used for pretreatments, dyeing, printing & after treatments.

## Part- III Woven & knitted fabric designing:

#### (i) Woven Fabric:

- (a) Introduction of fabric structures & definition of different type of fabrics.
- (b) Brief study of Handlooms, Semiautomatic & Automatic 100ms including various shedding techniques.
- (c) Classification & study of basic weaves, its derivatives & extensions.
- (d) Application of Draft, Peg Plan & Dent Plan.
- (e) Ornamentation of plain fabric & simple colour & weave effects.

- (f) Fancy twills & other decorative weaves.
- (g) Special Rib & Cord structures.
- (h) Stripe & check weave combinations.
- (i) Extra thread figuring.
- (j) Pile structures.
- (k) Various figuring structures produced by dobby & Jacquard.
- (1) Fabric analysis & cloth calculations.
- (m) Inspection of fabric for various faults & remedies.

#### (ii) Knitted Fabric:

- (a) History, definition & types of knitting.
- **(b)** Study of primary knitted structures.
- (c) Study of Jacquard knitted structures.
- (d) Uses of knit fabrics.
- (e) Defects in knitted fabrics & their remedies.

## <u>Part- IV</u> <u>Basic Drawing & Creative Textile Designing:</u>

- (i) Elements & Principles of Drawing & Composition.
- (ii) Introduction to Art material & tools.
- (iii) Understanding of basic shapes & space organization.
- (iv) Detail study of colour theories & colour schemes.
- (v) Colour modifications, effects & importance of colour in textiles.
- (vi) Application of texture, collage & illusion in designing.
- (vii) Understanding of various styles of design.
- (viii) Understanding of different bases & placements for designing.
- (ix) Expression of terms used in Textile Design & their application.
- (x) Repeat setting & production of design on fabric through various methods.
- (xi) Factors influencing creation in designing.

#### Part- V Indian Traditional Textiles & World Textiles:

- (A) (i) Detail study of Indian traditional Textiles in context of following:-
  - (a) Woven Brocade, Jamdani, Chanderi, Carpet, Baluchar.
  - (b) Painted Kalamkari, Madhubani, Miniature, Phar, Varli.
  - (c) Dyed & printed Ikat, Bandhani, Sanganeri, Batik.
  - (d) Embroidered Phulkari, Kashmiri, Kantha, Chickenkari, Kutch.
  - (ii) Statewise classification of different traditional textiles in India.
- (B) (i) Study of motifs, colour, fabric & method of application in textiles of following countries:-
  - (a) Japan
  - (b) China
  - (c) Egypt
  - (d) U.K.
  - (e) France
  - (f) Russia
  - (ii) Identification of harmful dyes & chemicals restricted/ banned by developed countries & their replacements.
  - (iii) List of various textile units & Export Houses established in Rajasthan & rest of India.
  - (iv) Comparative study of textile Import & Export among various countries in context of Rajasthan.

- (v) Impact of design & colour concept on export market.
- (vi) Portfolio presentation & Job prospects.
- (C) (i) Fashion trends & forecasting methods.
  - (ii) Influence of fashion on market.
  - (iii) Fashion merchandising.
  - (iv) List of fashion trade fairs & fashion shows organized in India.

## **Part- VI:** Modern Textile Trends & Techniques:

## (i) <u>Computer Aided Designing:</u>

- (a) Basic knowledge of computer application.
- (b) Knowledge of latest Textile Designing Softwares, their manufacturers & their application.
- (c) Colour separation & creation.
- (d) Scanning & printing techniques.

#### (ii) Other modern developments for design creation :

- (a) Latest developments in dyeing techniques.
- (b) Latest developments in printing techniques.
- (c) Latest developments in Woven, Non-woven and knitting techniques.

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## Pattern of Question Paper

- 1. Objective type paper
- 2. Maximum marks- 100
- 3. Number of questions 100
- 4. Duration of paper 2 hours
- 5. All question carry equal marks
- 6. There will be negative marking

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