

DEPARTMENT OF HANDLOOMS AND TEXTILES

Head Office, 14/3A, 3rd Floor, RP Bhavan, NT Road, Bangalore-560001

I. Syllabus for the Post of (i).Assistant Director (Group B) and

(ii).Textile Promotional Officer (Group B)

1.Textile Fibres:

Natural and manufactured fibres, Essential requirements of fibre forming polymers; Gross and fine structure of natural and manufactured fibres. Production, properties and uses of commercial fibres. methods of fibre and blend identification, Fibre extrusion methods, spin finish applications, spinnerets modification for special yarn productions, Texurization process.

2.Yarns Manufacture:

Ginning, all types of spinning process(conventional and non-conventional methods), post spinning yarn processes, Process parameter for the production of yarn and blended yarns, production and quality related calculations of yarn manufacture.

3.Fabric manufacture:

Yarn preparation to weaving, Fabric manufacture by conventional and non-conventional methods and machineries used for the process, Process parameter for the production of weaving preparatory and weaving process(woven and Knitting), production and quality related calculations of Fabrics manufacture, Production and applications of Technical Textiles. Classification, production and areas of application of non-woven fabrics. Fabric Defects and remedies, basic woven fabric constructions and their derivatives.

4.Textile Testing:

Testing, specification and standards of Fiber, yarn, fabrics and Apparels (Garment). Sampling techniques, sample size and sampling errors. Statistical data analysis of experimental results. Correlation analysis, significance tests and

analysis of variance; frequency distributions and control charts, Statistical packages.

5.Wet Processing:

Preparatory processing for Dyeing, Printing for woven & Knitted Fabrics and Apparels, different technique of Dyeing, Printing and Finishing of Woven, Knitted and Apparels, knowledge about Dyes, Chemicals and other auxiliaries, Eco friendly Dyes and Chemicals, Environmental related issues pertains to Textile & Clothing industries, Process parameter for the Dyeing, Printing for woven & Knitted Fabrics and Apparels, production and quality related calculations of Dyeing, Printing for woven & Knitted Fabrics and Apparels.

6.Apparels (Garments):

Costumes, Apparel construction and finishing, Apparel categories and fashion life style, fashion apparel marketing and merchandising.

7.IT skills:

Basics of computer applications and IT applications in Textiles and Apparel Industries.

8.Management:

Basic Management Tools and Techniques in Textile and Apparel Industries. Basic knowledge of laws related to small scale industries(SSi) and Mega Industries w r t Handlooms, Powerloom, Garment units, Excise rules. Fundamentals of Human relations, Financial management, Marketing, Patent, GI and IPR.

National and State Textile & Clothing policies, Entrepreneur Development, Cluster approach, Export promotion facilities under Exim policy and Inco Terms, Management of Handloom, Powerloom and Textile Co-operatives, Project preparation(Tiny and SSI), Techno-economical feasibility and Evaluation

II. Syllabus for the Post of: (i) Textile Inspector (Group C)

1. TEXTILE FIBRES:

Classification of Textile fibres, Production, properties and uses of Natural and Manufactured fibers.

2. YARN MANUFACTURING:

Ginning, Basic principles of Opening and cleaning, Carding, Drawing, Combing, Roving, Ring spinning and Basic of Non-conventional spinning.

3. FABRIC MANUFACTURING:

Preparatory process, primary and secondary motions, Handlooms, Power looms, Automatic looms, Shuttle less looms, woven fabric defects, fabric weaves, Standard particulars of commercial fabrics, Basic weft and warp knit structures, Knit fabrics defects. History and production of Traditional Weaving designs of Karnataka & other states, Preparatory and Weaving Calculations, Basic woven fabric constructions and their derivatives.

4. DYEING, PRINTING AND FINISHING OF TEXTILES:

Water purification, Preparatory process, Dyes and dyeing process, printing, Finishing, pollution and pollution control. Usage of Eco-friendly dyes and chemicals. Garment washing.

5. TEXTILE TESTING:

Fiber, Yarn, Fabric and Apparel (Garment) Testing, Statistical quality control.

6. APPAREL MANUFACTURE:

Fabric sourcing, pattern making, spreading, cutting, sewing, fusing, pressing, packing, marketing, merchandising, Care labeling, embroidery, SQC, Industrial engineering.

7.IT skills:

Basics of computer applications and IT applications in Textiles and Apparel Industries.

8. MANAGEMENT BASICS:

TQM, Safety and environmental issues, Indian factories act, National and state Textile policies, Entrepreneurship development, Women welfare schemes for empowerment.
