

TEXTILE DYEING AND PRINTING
B.A/ B.Sc. /B.Com. Part -II– 2020-21

Scheme		Science			Arts / Commerce		
Pt-II	Nomenclature	Dur.	Max./Min. Marks		Max./Min. Marks		No. of Periods
Paper-I	Fabric Construction	3 hrs	75	27	65	24	3
Paper-II	Printing	3 hrs	75	27	65	24	3
Practical		4 hrs	75	27	70	26	4/ Batch

Paper -1 Fabric construction

Duration: 3 hrs

Max. Marks: (Sc)-75/(Arts/Comm.)-65

Note: The question paper will contain three sections as under-

- Section-A:** one compulsory question with 10 parts, having 2 parts from each unit, short answer in 20 words for each part. 10 (Sc.)/05 (Arts/Comm.)
- Section-B:** 10 questions, 2 questions from each unit, 5 questions to be attempted, taking one from each unit, answer approximately in 250 words. 35 (Sc.)/35 (Arts/Comm.)
- Section-C:** 04 questions (question may have sub division) covering all units but not more than one question from each unit, descriptive type answer in about 500 words, 2 questions to be attempted. 30 (Sc.)/25 (Arts/Comm.)

- Unit 1 Different methods of yarn construction
- Types of yarn
 - Yarn characteristics and their measurement
 - Twist, Crimp, Strength
 - Yarn numbering system –Tex, Denier, Count

- Unit 2 Selvedges.
- Plain selvedge.
 - Tape selvedge.
 - Split selvedge.
 - Fused selvedge.
 - Leno selvedge.
 - Tucked selvedge.

- Unit 3
- a. Various methods of fabric construction
 - b. Cost estimation of Fabric per yard/meter
 - i. Reed count, Healed count
 - ii. Warp and weft calculations
 - iii. Cloth calculations

- Unit 4
1. Dobby :
 - Definition of Dobby
 - Scope of Dobby
 - Types of Dobby

2. Jacquard :
 - Definition of Jacquard
 - Scope of Jacquard
 - Types of Jacquard
4. Introduction to shuttle less loom

Unit 5 Study of woven textiles according to colour, texture, motifs & techniques

- a. Jamdani b. Baluchar c. Paithani Sarees
- d. Maheshwari Saree e. Chanderi Saree f. Banarasi Brocade

Reference Books

Weaving Technology-M.M.Kulkarni, Virinda Publication, Jalgon
Grociki, Z.J.; Watsons Textile Design and Colour, London, Newness Butter Worth

Paper –II - Printing

Duration: 3 hrs

Max. Marks: (Sc)-75/(Arts/Comm.)-65

Note: The question paper will contain three sections as under-

- Section-A:** one compulsory question with 10 parts, having 2 parts from each unit, short answer in 20 words for each part. 10 (Sc.)/05 (Arts/Comm.)
- Section-B:** 10 questions, 2 questions from each unit, 5 questions to be attempted, taking one from each unit, answer approximately in 250 words. 35 (Sc.)/35 (Arts/Comm.)
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UNIT 1 Introduction to Printing - difference between dyeing and printing.
Historical development of printing methods-block, stencil, screen, roller and rotary screens used at cottage and industrial level

UNIT 2 Definition of printing
Pretreatments required ingredients for printing (Thickening agent, Mordents, oxidizing and reducing agent etc.)
Preparation of printing paste recipes

UNIT 3 Styles of printing – direct style, dyed, resist style, discharge style and raised style
Special printing procedures- Polychromatic dyeing, Transfer printing,
Carpet printing, Flock printing
Finishing and after treatment of printed goods at cottage and industrial level.

UNIT 4 Organization of the textile industry: Centralized and Decentralized sectors, handlooms, co-operative and export trends, multinational companies

UNIT 5 Study of printed Textile

- a. Sanganeri
- b. Bagru
- c. Kalamkari
- d. Ajarakh

Practical

Min. marks: 27/26

Max.marks: 75/70

Duration : 4hrs.

1. Constructing fabrics by other methods like Knitting, Crotchet, Macrame
2. Introduction to computer aided designing for weaving & printing software.
3. Paper work on: 4 (four) sketches on geometrical, stylized, figurative, abstract, traditional- (4 motifs)
4. Sketches on plain, vertical, horizontal and half step repeat.
5. Paper work and practical work for stencil size (one meter cloth) with pigment or fabric color.
6. Printing with blocks and screen on cotton, product development
7. Weaving Muffler (6"x 60") or Assan 12"x12"
8. Field and industrial visit
9. Development of an innovative product.
10. Entreprenurship activity
11. Community engagement activity

References

1. www.rajasthanertextiles.com
2. शर्मिला गुर्जर "वस्त्र की रंगाई एवं छपाई"
3. Block Printing and Dyeing of Bagru, Rajasthan/Bijoy Chandra Mohanty and Jagadish Prasad Mohanty. Ahmedabad, Calico Museum of Textiles, 1983, 108 p., plates, map, (Study of Contemporary Textile Crafts of India).
4. R.S Prayag, Textile Printing
5. V.A.Shenai , Technology of Printing