

Roll No.
Printed Pages : 3

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BT-6 / M-18
COMPUTER AIDED FABRIC
MANUFACTURING
Paper-TT-310 N

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

Unit-I

1. What are CAD and CAM ? Compare between CAD and CAM. With the help of suitable examples, explain their applications in various fields of textiles and apparel sector. How CAD and CAM is beneficial to TEXTILE and APPAREL sectors. Illustrate your answer with the help of neat sketches. 15
2. What are the DESIGN FUNDAMENTALS ? Also discuss the concepts of Image Processing ? How can you compare between ELEMENTS OF DESIGN and PRINCIPLES OF DESIGN ? Illustrate your answer with the help of neat sketches and suitable examples of Printable Design for Screen Printing through ARAHCAD. 15

Unit-II

3. Define DOBBY. Compare between MECHANICAL DOBBY and ELECTRONIC DOBBY. With the help of neat diagram,

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explain their working principle and machine parameters along with applications in various fields of Fabric formation system. 15

4. What are Jacquard machines ? Compare between MECHANICAL JACQUARD and ELECTRONIC JACQUARD. With the help of neat diagram, explain their working principle along with applications in various fields of textile product making. 15

Unit-III

5. Discuss the role of CAD in DOBBY Designing. With the help of neat diagrams, explain the development of designs through ARAHWEAVE. Also discuss the yarn and fabric parameters in above design. 15
6. Discuss the role of CAD in JACQUARD Designing. With the help of neat diagrams, explain the development of JACQUARD designs through ARAHWEAVE SOFTWARE. Also discuss the WEAVE and fabric SIMULATION in above design. 15

Unit-IV

7. Discuss with the help of suitable examples, how figures

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are developed ? What are the role of Geometric ornamentation in developing figures ? Explain with the help of suitable examples. 15

8. How the arrangement of figures are taken place ? Also discuss the role of CAD in designing Carpets, Narrow weaving and Embroidery. Illustrate your answer with the help of suitable examples. 15

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