

Code: 150-5303

TEXT

THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

(Autonomous)

Reg. No.

October/November 2019 Examinations

DIPLOMA IN TEXTILE TECHNOLOGY

Fabric Manufacture-II

Year/Sem: III /V (ODD-III)

Max. Marks : 75

Time : 3 hr.

PART-A

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.

(ii) All questions carry equal marks.

- 1 What are the objectives of Dobby Shedding?
- 2 Write the classification of Jacquard Shedding.
- 3 State any two advantages of Double Lift Double cylinder Jacquard.
- 4 What is Card saving device?
- 5 What is the principle involved in Terry Mechanism.
- 6 What are Weft Feelers?
- 7 How electrical type of warp stop motion works?
- 8 Define Over lap and Under lap in warp knitting mechanism.

PART-B

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.

(ii) All questions carry equal marks.

- 9 State the advantages of Cam doobby over Lever doobbies.
- 10 What is casting out in Jacquard?
- 11 Write a note on Electronic card punching machine.
- 12 What is Pick-at-will motion?
- 13 How Fringes are formed?
- 14 What is self threading shuttle?
- 15 Define the terms-Course, Wales, Needle loop.
- 16 State any three points comparing Warp and Weft knitting.

PART-C

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question. (ii) All questions carry equal marks.

- 17 A Draw a neat sketch of Pegging of Lattice of Climax doobby for a design of your own. 10
(OR)
B Describe the working of Electronic Rotary Dobby with a neat diagram. 10
- 18 A Explain the construction of Double lift double Cylinder Jacquard with a sketch. 10
(OR)
B Explain with sketches of Norwich and London systems of Jacquard harness mounting. 10
- 19 A Describe the card preparation for 4x1 Cowburn and Peck's Drop box mechanism without card saving device. 10
(OR)
B Explain any one type of Loose Reed Terry mechanism with a neat Sketch. 10
- 20 A Describe the working of Midjet and Photo electric weft feeler with Sketches. 10
(OR)
B Explain the construction and working of Ruti C Positive Let off Motion with diagram. 10
- 21 A With a neat sketch, explain the passage of material through Single Jersey circular weft knitting machine. 10
(OR)
B Explain with line sketches, the different stages of Knitting cycle of bearded needle in Tricot warp knitting machine. 10

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DIPLOMA IN TEXTILE TECHNOLOGY

Textile Wet Processing-II

Year/Sem: III / V (ODD-III)

Max. Marks : 75

Time : 3 hr.

PART-A**(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 What is printing?
- 2 Mention the methods of printing.
- 3 Give the name of any four printing machine.
- 4 Write the objectives of stenter machine.
- 5 State the advantages of calendaring process.
- 6 Name the types of resin.
- 7 Define bio-polishing.
- 8 What is eco labeling?

PART-B**(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 What are the requirements required for printing?
- 10 Write short notes on Transfer printing machine.
- 11 State the classification of finishing.
- 12 Brief out about zero-zero finishing.
- 13 Write note on Antimicrobial finish.
- 14 What is Decatising?
- 15 What is need for ecofriendly processing?
- 16 Write note on metallic printing.

PART-C**(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question. (ii) All questions carry equal marks.**

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|----|---|--|----|
| 17 | A | Explain the important ingredients used in printing paste with function. | 10 |
| | | (OR) | |
| | B | Explain the direct style of printing with reactive dyes on cotton. | 10 |
| 18 | A | Explain the working Rotary printing machine with a neat sketch. | 10 |
| | | (OR) | |
| | B | Explain the working of Digital Ink Jet printing machine. | 10 |
| 19 | A | Explain with a neat sketch the working of sanforising machine. | 10 |
| | | (OR) | |
| | B | Write the working procedure of Hot air stenter machine with a neat sketch. | 10 |
| 20 | A | Explain the properties of various softeners with their merits and demerits. | 10 |
| | | (OR) | |
| | B | Explain flame retardant finish with a suitable recipe. | 10 |
| 21 | A | Give an account of water pollution. Explain the problems and remedies of water pollutions. | 10 |
| | | (OR) | |
| | B | Write and explain the list of banned dyes and chemicals. | 10 |

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DIPLOMA IN TEXTILE TECHNOLOGY

Garment Manufacture

Year/Sem: III / V (ODD-III)

Max. Marks : 75

Time : 3 hr.

PART-A**(5 x 2 = 10 Marks)****Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.****(ii) All questions carry equal marks.**

- 1 What are the stages of fashion cycle?
- 2 Mention the fabrics used for Clothing industry.
- 3 What is Eight head theory?
- 4 What is the importance of pattern grading?
- 5 What is layout?
- 6 What is the purpose of bar tack sewing?
- 7 Mention the categories of pressing.
- 8 What is the objective of needle numbering?

PART-B**(5 x 3 = 15 Marks)****Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.****(ii) All questions carry equal marks.**

- 9 How the garment styles are developed?
- 10 List the points to be considered while taking the measurements.
- 11 Write a note on types of grain.
- 12 Mention the objectives and types of fabric spreading.
- 13 Mention the drawbacks of die cutting machine.
- 14 What are the advantages of flat lock sewing machine?
- 15 Compare the flat bed fusing and Continuous fusing system.
- 16 Classify the stitches as per international standard.

PART-C**(5 x 10 = 50 Marks)****Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question. (ii) All questions carry equal marks.**

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|----|---|--|----|
| 17 | A | Explain the steps involved in garment production process. | 10 |
| | | (OR) | |
| | B | Explain the garment factory organization structure. | 10 |
| 18 | A | Explain the pattern drafting principles. | 10 |
| | | (OR) | |
| | B | Explain the important body measurements for women with neat sketch. | 10 |
| 19 | A | Explain the different types of lays and its importance with neat sketch. | 10 |
| | | (OR) | |
| | B | Explain the different types of hand shears and its importance. | 10 |
| 20 | A | Explain the types of seam with neat sketch. | 10 |
| | | (OR) | |
| | B | Explain briefly about the over lock and flat lock sewing machine. | 10 |
| 21 | A | Explain the different types of garment packing material. | 10 |
| | | (OR) | |
| | B | Explain any five types of garment packing method. | 10 |

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TEXT

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DIPLOMA IN TEXTILE TECHNOLOGY

Textile Testing

Year/Sem: III / V (ODD-III)

Max. Marks : 75

Time : 3 hr.

PART-A

(5 x 2 = 10 Marks)

Note: (i) Answer any FIVE questions out of which question No.8 is compulsory.

(ii) All questions carry equal marks.

- 1 What is Zoning technique?
- 2 What is uniformity ratio?
- 3 What is AFIS?
- 4 Define Tex, Denier.
- 5 What is CRT principle?
- 6 What is Air Permeability?
- 7 What is coefficient of variation?
- 8 What is Flame proof fabrics?

PART-B

(5 x 3 = 15 Marks)

Note: (i) Answer any FIVE questions out of which question No. 16 is compulsory.

(ii) All questions carry equal marks.

- 9 What are the factors affecting Regain?
- 10 What is FQI? Give its importance.
- 11 Draw the stress strain curve for cotton, polyester and silk.
- 12 What are short, medium and long term variations?
- 13 What are the factors affecting Abrasion?
- 14 What is objective measurement of Fabric handle?
- 15 What is mean, median, range?
- 16 What are Classmate Faults?

PART-C

(5 x 10 = 50 Marks)

Note: (i) Answer all the questions choosing either sub-division (A) or sub-division (B) of each question. (ii) All questions carry equal marks.

- 17 A Explain with neat sketch the measurement of humidity using wet and dry bulb hygrometer. 10
(OR)
B Explain with neat sketch the measurement of moisture content and regain using conditioning oven. 10
- 18 A Explain with neat sketch the measurement of Fibre fineness using ATIRA Fineness Tester. 10
(OR)
B Explain with neat sketch the measurement of fibre strength using STELOMETER. 10
- 19 A Explain with neat sketch the working of Take-up twist tester. 10
(OR)
B Explain with neat sketch the working of Lea strength tester. 10
- 20 A Explain the measurement of air permeability using air permeability tester. 10
(OR)
B Explain with neat sketch the working of fabric stiffness tester. 10
- 21 A Explain the construction procedure for Histogram and frequency polygon by taking suitable example. 10
(OR)
B Explain the construction procedure for constructing averages and ranges chart. 10
