



M.TECH DEGREE EXAMINATIONS: JUNE 2017

(Regulation 2015)

Second Semester

TEXTILE TECHNOLOGY

P15TXTE14: Apparel Quality Control and Standards

COURSE OUTCOMES

- CO1:** Explain different raw material inspection systems used in apparel industry.
CO2: Discuss the quality control techniques in sewing department.
CO3: Describe the quality control techniques in pressing and packing department.
CO4: Explain different statistical sampling methods used for final garment inspection.
CO5: Compare different care labeling system.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Assertion (A): As the contact point of sewing thread increases, the tension increases. CO2 [K₃]
Reason (R): Coefficient of friction of sewing thread plays a vital role in tension.
a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false d) A is false but R is true
2. In AQL 2.5 level, what is acceptable points for 600pcs lot CO4 [K₁]
a) 6 b) 7
c) 8 d) 9
3. Angular displacement of weft yarn in fabric is called as CO3 [K₂]
a) Skewing b) Snagging
c) Bowing d) Weft bar
4. Match the following CO1 [K₂]

List I	List II
A. Ten point scale	i. Garment Inspection
B. AQL	ii. Puckering
C. Feed ratio	iii. Fabric Inspection
D. Sewing thread Shrinkage	iv. SPI

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| a) | ii | i | iii | iv | | |
| b) | iii | iv | ii | i | | |
| c) | ii | iv | iii | i | | |
| d) | iii | i | iv | ii | | |
5. Assertion (A): As the spreading quality is maintained good, the cutting defects reduce. CO1 [K₃]
Reason (R): High tension of spreading leads to size reduction after sewing.
- a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A
- c) A is true but R is false d) A is false but R is true
6. Bowing is the distortion of CO5 [K₂]
- a) Weft Thread b) Warp Thread
- c) Sewing Thread d) Embroidery Thread
7. What are elements affecting the strength of a seam or stitching? CO2 [K₃]
1. Stitch type 2. Thread strength 3.SPI 4. Seam type 5. Needle type
- a) 1,3 b) 1,2,3,4 & 5
- c) 1,2, 3 & 4 d) 2,3
8. Find the odd word out CO4 [K₂]
- a) Cause effect diagram b) Check sheet
- c) Control chart d) Scheduling
9. Standard testing atmosphere of a testing lab means CO4 [K₂]
- a) RH 70%, 20°C b) RH 65%, 25°C
- c) RH 65%, 32°C d) RH 65%, 20°C
10. Pick out the mendable fabric defect CO5 [K₂]
1. Slub 2. Oil stain 3.Dyestuff stain 4. Thin weft
- a) 1,2,3 & 4 b) 2 & 3
- c) 3 & 4 d) 1 & 2

PART B (10 x 2 = 20 Marks)

11. Define Four Point system. CO1 [K₁]
12. Tell the significance of tension in Spreading of fabrics. CO1 [K₁]
13. Recall the importance of Stitch size in a garment. CO2 [K₁]
14. Why does seam slippage occur? CO2 [K₂]
15. What are the quality requirements for pressing operation? CO3 [K₂]
16. Define any two of garment defects in packing department. CO3 [K₂]

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| 17. What is the importance of flowcharts? | CO4 | [K ₂] |
| 18. Contrast any two points between single sampling and double Sampling. | CO4 | [K ₃] |
| 19. List any two care labeling systems. | CO5 | [K ₂] |
| 20. Spell out the purpose of ISO series in garment industry. | CO5 | [K ₁] |

PART C (6 x 5 = 30 Marks)

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| 21. Illustrate on spreading properties of fabrics. | CO1 | [K ₂] |
| 22. How is the quality of sewing and seaming controlled? | CO2 | [K ₃] |
| 23. Elaborate on methods of measuring in finishing department. | CO3 | [K ₂] |
| 24. Design control charts for few departments in garment unit. | CO4 | [K ₅] |
| 25. Formulate the sequence of activities in implementing ISO series in a garment manufacturing unit | CO5 | [K ₆] |
| 26. Demonstrate on Japanese Care Labeling System. | CO5 | [K ₂] |

Answer any FOUR Questions

PART D (4 x 10 = 40 Marks)

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| 27. Explain the quality factors in cutting department. | CO1 | [K ₂] |
| 28. Demonstrate In-process inspection in sewing. | CO2 | [K ₂] |
| 29. Illustrate on quality control in Shipping package. | CO3 | [K ₃] |
| 30. Discuss about Pareto charts and Check sheets with sample formats. | CO4 | [K ₂] |
| 31. Distinguish the American Care labeling System from British Care Labeling System. | CO5 | [K ₂] |
