



B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Fourth Semester

FASHION TECHNOLOGY

U18FTT4002: Apparel Machinery and Equipment

COURSE OUTCOMES

- CO1:** Acquire knowledge in different methods of spreading of fabrics with respect to type of fabric and to Evaluate the marker efficiency.
- CO2:** Describe the basic principles of working of different types of cutting machineries used in apparel production
- CO3:** Test the settings and adjustment parts of sewing machines
- CO4:** Develop skills for recognizing various parts and their working principles in advanced garment sewing machines.
- CO5:** Acquire knowledge on special machineries used in apparel production
- CO6:** Express the importance and the audit of sewing machinery maintenance.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Matching type item with multiple choice code

CO1 [K₃]

| List I | List II |
|-------------------------------|-------------------------|
| A. Pattern making and grading | i. Diazo photo electric |
| B. Marker planning | ii. Modaris |
| C. Cutting | iii. Gerber |
| D. Marker duplicating | iv. Diamino |

- A B C D
- a) ii i iii Iv
- b) iii iv ii I
- c) ii iv iii i
- d) iii i ii iv
2. Select the range of marker efficiency obtained in apparel industry.

CO1 [K₃]

- a) 10%-20% b) 30%-40%
- c) 60%-70% d) 80%-90%

10. Select the frequency of oiling of important parts of a swing machine in industry CO6 [K₃]
- | | |
|-----------|------------|
| a) Daily | b) Monthly |
| c) Yearly | d) Weekly |

PART B (10 x 2 = 20 Marks)
(Answer not more than 40 words)

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| 11. List the factors which influence marker efficiency. | CO1 [K ₁] |
| 12. Outline the salient features of automatic spreading machine. | CO1 [K ₂] |
| 13. Explain the principle of laser cutting. | CO2 [K ₂] |
| 14. Band knife cutting machine is the most suitable for cutting curved parts. Justify. | CO2 [K ₄] |
| 15. List any four major parts of a sewing machine. | CO3 [K ₁] |
| 16. Analyze the causes and remedies of seam puckering. | CO3 [K ₄] |
| 17. Outline the function of feed dog. | CO4 [K ₁] |
| 18. Explain the function of loop spreader. | CO4 [K ₂] |
| 19. Analyze the importance of bar tack stitch. | CO5 [K ₄] |
| 20. Outline the function of blind stitch sewing machine. | CO6 [K ₁] |

Answer any FIVE Questions:-
PART C (5 x 14 = 70 Marks)
(Answer not more than 300 words)

Q.No. 21 is Compulsory

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| 21. Explain in detail the working of an automatic spreading machine. | CO1 [K ₂] |
| 22. Explain in detail the working of straight knife cutting machine with a neat sketch. | CO2 [K ₂] |
| 23. Analyze the common sewing problems occurring in a basic sewing machine with remedies. | CO3 [K ₄] |
| 24. Explain in detail the important parts of an over lock machine. | CO4 [K ₂] |
| 25. Explain in detail any two special purpose sewing machines and its importance in apparel manufacturing. | CO5 [K ₂] |
| 26. Classify machine maintenance and develop a sewing machine maintenance record. | CO6 [K ₆] |
| 27. Analyze the requirements of a spreading process. | CO1 [K ₄] |
