Register Number:……..

KUMARAGURU
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ENTER **B.E/B.TECH DEGREE EXAMINATIONS: MAY 2023**

(Regulation 2018)

Fourth Semester

B.TECH 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 recognize 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 2 = 20 Marks)
(Answer not more than 40 words)

1.	List the requirements of marker planning process and its importance	CO1	[K_1]
2.	Name any six components in travelling spreaders	CO1	[K_1]
3.	Compare straight knife and band knife cutting machines	CO2	[K_4]
4.	State the purpose of notches and thread makers	CO2	[K_3]
5.	Compare cylinder bed flat lock with normal flat lock sewing machine	CO3	[K_4]
6.	Enlist the special attachments used for sewing machines	CO3	[K_3]
7.	Differentiate between drop feed and differential feed mechanisms	CO4	[K_4]
8.	Prepare the preventive maintenance schedule for double needle lockstitch machine	CO4	[K_2]
9.	Enumerate the types, parts and functions of flat lock machines	CO5	[K_3]
10.	“The machine running at higher speed needs more maintenance” –validate the statement	CO6	[K_5]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Analyse the various types of fabric packages and their effect on spreading	8	CO1	[K_4]

	b)	Explain the features and functions of computerized aided marker planning	8	CO1	[K_2]
12.	a)	Discuss the working of band knife cutting machine with their merits and demerits	8	CO2	[K_2]
	b)	Explain the working principle of "laser cutting"	8	CO2	[K_1]
13.	a)	Critically evaluate the various types of finishes applied for sewing needles	8	CO3	[K_5]
	b)	Discuss the common defects and remedial measures of Single Needle Lock Stitch Machine	8	CO3	[K_4]
14.	a)	Formulate the adjustments required in terms of flat lock sewing machine with respect to needle height, feed dog height and differential feed ratio	8	CO4	[K_4]
	b)	Sketch the Stitch Cycle Diagram for over lock sewing machines	8	CO4	[K_5]
15.	a)	Outline the functions of bar tack and blind stitch special purpose sewing machines	8	CO5	[K_4]
	b)	Discuss about the salient features of computerized embroidery machine	8	CO5	[K_4]
16.	a)	Explain the sewing machinery maintenance audit followed in apparel industry	8	CO6	[K_2]
	b)	Discuss the significance of lubrication in sewing machine and also explain the types of lubrication systems with examples	8	CO6	[K_4]

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Please indicate knowledge level (K_1toK_6) and Course Outcome level (CO1 to CO5) against each question for each subdivision.