KUMARAGURU
college of technology
character is life

Register Number: …….

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2013)

Third Semester

FASHION TECHNOLOGY

U13FTT302: Knitting Technology

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. _____cam influences the loop length in weft knitting.
   a) Guard b) Stitch
   c) Up throw d) Running
2. _____ needle is known as self acting needle.
3. _____ is the derivative of interlock gaiting
   a) Ottoman rib b) Pique Poplin
   c) Half cardigan d) La - Caste
4. The maximum limit for tuck stitches is _____ courses.
5. In weft knitting, the tightness factor is directly proportional to _____
   a) Square root of tex count b) Square root of Denier count
   c) Square root of Ne count d) Square root of loop length
6. _____is a derivative of purl structure.
7. Satin is a _____ structure
   a) Two bar b) Three bar
   c) Four bar d) Raschel
8. Simplex machines are equipped with two sets of _____ needles
9. Fabric/soil shear characteristics is one of the parameter considered for the application of warp knitted structures in _____ Textiles
   a) Medical b) Geo
   c) Home d) Build
10. D.O.S refers to _____

PART B (10 x 2 = 20 Marks)

(Not more than 40 words)

11. Differentiate spring bearded and latch needles
12. State the influence of yarn hairiness on high speed knitting machine.
13. Draw the needle arrangement for rib and interlock gaiting.
14. What is spirality?
15. Brief the uniqueness of flat knitting.
16. What are blister fabrics?
17. Brief the threading of guide bars in warp knitting machines.
18. What is swinging and Shogging of guide bars?
19. State the application of spacer fabrics.
20. Brief on warp knitted multi axial structures

PART C (5 x 14 = 70 Marks)

(Not more than 400 words)

Q.No. 21 is Compulsory

21.		(i)	Compare knitting and weaving.	(6)
		(ii)	Give the yarn quality requirements for Knitting.	(8)
22.	a)	(i)	Discuss the factors that are to be considered for the selection of weft knitted fabric.	(8)
		(ii)	Illustrate the knitting action of latch needle.	(6)
			(OR)	
	b)	(i)	Explain the functions of any four important knitting elements of circular weft knitting machine	(8)
		(ii)	Illustrate the knitting action of compound needle.	(6)
23.	a)	(i)	Demonstrate the symbolic and diagrammatic notations of the four basic weft knitting structures.	(6)
		(ii)	Discuss the principal stitches in weft knitting with their characteristics	(8)
			(OR)	
	b)	(i)	Elaborate the characteristics of the four basic weft knitted structures.	(10)
		(ii)	Construct the weft knit structures Milano rib and Single pique.	(4)

24.	a)	(i)	Differentiate warp and weft knitting.	(8)
		(ii)	Compare Tricot and Raschel warp knitting machine.	(6)
			(OR)	
	b)		Explain any four principal stitches of warp knitting.	(8)
			Illustrate the warp knit structures Shark skin and Queen's cord.	(6)
25.	a)	(i)	Infer any four warp knit structures for technical textiles applications	(10)
		(ii)	List any four applications of warp knit fabrics in medical application.	(4)
			(OR)	
	b)	(i)	Explain the application of warp knitted structures in automotives and industrial textiles applications.	(10)
		(ii)	List any four applications of warp knit fabrics in sports textiles.	(4)

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