GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2024

Subject Code:3162913   **Date:24-05-2024**

Subject Name:Advanced Fabric Structure and CAD

Time:10:30 AM TO 01:00 PM   **Total Marks:70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	State the features and end use of backed cloth.	**03**
	(b)	Draw design and cross sections for plain back velveteen.	**04**
	(c)	With the help of suitable designs, explain the basic sheds formed while producing leno fabrics.	**07**
Q.2	**(a)**	Explain importance of wedding threads in double cloth.	**03**
	(b)	Explain the principle of tying / stitching in the double cloth.	**04**
	(c)	Construct design, draft and peg plan for self-stitched double cloth.	**07**
		OR	
	(c)	Draw design, draft and peg plan for Centre stitch double cloth fabric.	**07**
Q.3	**(a)**	Draw only design for tubular double cloth.	**03**
	(b)	State the difference between velvet and velveteen.	**04**
	(c)	Draw design, draft, peg plan and cross section of corduroy.	**07**
		OR	
Q.3	**(a)**	Give the classification of Double cloth.	**03**
	(b)	Draw design, draft, peg plan and cross section of 3 pick terry weaves.	**04**
	(c)	Discuss the special mechanism required for weaving terry fabrics.	**07**
Q.4	**(a)**	What do you mean by Gauge and leno weaving?	**03**
	(b)	Draw design for counter leno.	**04**
	(c)	Draw design of stripes effect using stripe weave and simple wefting with compound warping.	**07**
		OR	
Q.4	**(a)**	State the features of leno fabric	**03**
	(b)	Write a brief note on Tapestry fabric.	**04**
	(c)	Explain the steps for developing a dobby design using CAD software.	**07**
Q.5	**(a)**	State difference between damask & brocade.	**03**
	(b)	Write a note on damask.	**04**
	(c)	Briefly explain steps of constructing jacquard design.	**07**
		OR	
Q.5	**(a)**	Draw only design for open width double cloth.	**03**
	(b)	Draw design, draft and peg plan of Gauge leno weave.	**04**
	(c)	Give only designs for the following: (i) Step Pattern (ii) Bird's eye effect	**07**

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