

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER- VI EXAMINATION – SUMMER 2026****Subject Code:3162913****Date:01-06-2026****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) Draw only design for hair line pattern.	03
	(b) Distinguish between simple and compound fabrics.	04
	(c) Draw design and cross section of tubular double cloth.	07
Q.2	(a) What are the characteristics of pile fabric?	03
	(b) Give only designs for compound stripe pattern.	04
	(c) Which fabrics are called back cloth? Which weaves are suitable for weft back cloth? Why? Construction only design of weft back cloth.	07
	OR	
	(c) Write a brief note on “Terry Ornamentation”.	07
Q.3	(a) Discuss principle of jacquard designing.	03
	(b) Write a brief note on Tapestry fabrics.	04
	(c) Draw design and cross section of corded velveteen.	07
	OR	
Q.3	(a) Explain Importance of wedding threads in double cloth	03
	(b) Draw design of all over pattern.	04
	(c) Construct design and cross section of self stitched double cloth by stitching from back to face.	07
Q.4	(a) Draw design and cross section of plain back velveteen.	03
	(b) Draw design for counter leno.	04
	(c) Draw design, draft and peg plan of gauge leno weave.	07
	OR	
Q.4	(a) Explain in short application areas of CAD software.	03
	(b) Briefly explain steps of constructing jacquard design	04
	(c) Construct design and cross section of centre stitch double cloth.	07
Q.5	(a) State the features of leno fabric.	03
	(b) Write a brief note on ‘Brocade fabrics’.	04
	(c) Draw design, draft, peg plan and cross section of open width double cloth fabric.	07
	OR	
Q.5	(a) Give the classification of pile fabric.	03
	(b) Explain important features of CAD software.	04
	(c) Draw design, draft and peg plan for following.	07
	i. Warp backed cloth ii. Weft backed cloth	
