

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022

Subject Code:3162913

Date:17-12-2022

Subject Name:Advanced Fabric Structure and CAD

Time:02:30 PM TO 05:00 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 design for Hairline effect.	03
(b) What is the importance of color and weave effects?	04
(c) Explain the different methods of making double cloths.	07
Q.2 (a) Draw design of Step pattern.	03
(b) Give only designs for compound stripe pattern.	04
(c) Construct design and cross section for following designs. i. Twill back velveten ii. Corduroy	07
OR	
(c) Discuss principle of jacquard designing.	07
Q.3 (a) What do you mean by Gauge and leno weaving?	03
(b) Draw design, draft and peg plan for simple leno.	04
(c) Draw design, draft and peg plan for following. i. Warp backed cloth ii. Weft backed cloth	07
OR	
Q.3 (a) Draw design and cross section of tubular double cloth.	03
(b) Construct one design of: Compound check effect.	04
(c) Write a brief note on “Terry Ornamentation”.	07
Q.4 (a) Draw design and cross section of wire warp pile	03
(b) Give only design of bird’s eye effect.	04
(c) What is pile height and pile density? Discuss factors affecting pile density.	07
OR	
Q.4 (a) Give design of warp wadded double cloth.	03
(b) Draw a neat screen layout of any CAD software for doobby	04
(c) Describe the view, selection & database tools offered by any CAD software for jacquard designs.	07
Q.5 (a) Write short note on damask.	03
(b) Write a brief note on ‘Brocade fabrics’.	04

(c) Construct design and Cross section of treble cloth. **07**

OR

Q.5 (a) Write short note on spider leno. **03**

(b) Construct design of Weft back cloth with wadded warp. **04**

(c) Construct design draft and peg plan of self stitch double cloth. **07**
