

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI- EXAMINATION – SUMMER 2016

Subject Code: 162902

Date: 21/05/2016

Subject Name: Advance Fabric Structure & 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.

- Q.1** (a) Which fabrics are called Back cloth ? which weaves are suitable for weft back cloth? why? Construct only design for Weft Back Cloth. **07**
- (b) Give the classification of Double cloth. **07**  
Construct design for self-stitched double cloth with wadded warp.
- Q.2** (a) What are the characteristics of pile fabric ? Also construct following weft pile designs with cross-Section: **07**  
i. Twill back velveteen  
ii. corduroy
- (b) Briefly explain steps of constructing jacquard design. **07**
- OR**
- (b) Give only designs for the following: **07**  
i. compound stripe effect on 20x10  
ii. compound check effect on 16x16
- Q.3** (a) Give design, draft and peg-plan for warp back cloth. **07**
- (b) Give only designs for the following: **07**  
i. centre warp stitched double cloth  
ii. wire warp pile
- OR**
- Q.3** (a) Give only designs for the following: **07**  
i. Interchanging double cloth  
ii. Treble cloth
- (b) What is the importance of colour and weave effect ? construct designs for the following : **07**  
i. Hound's tooth effect  
ii. Vertical hairline effect  
iii. Horizontal continuous line effect
- Q.4** (a) Construct spot effect on 30 x 30. (given fabric specifications 28 epi and 28 ppi). **07**  
Incorporate twill order of distribution of spots.
- (b) Explain briefly the steps for developing a dobby design using CAD software. **07**
- OR**
- Q.4** (a) With the help of neat sketch, explain positive easing mechanism used in leno weaving. **07**
- (b) Briefly explain the construction & characteristics of Net leno. **07**
- Q.5** (a) With the help of designs, discuss how single & multicolor stripes & checks effect can be obtained in terry fabrics. **07**
- (b) Discuss the different methods of removing surplus extra threads in figuring fabrics. **07**

**OR**

- Q.5** (a) Give design, draft & pegplan for extra weft figuring (using 2 continuous extra weft). **07**
- (b) Write a note on Damask & brocades. **07**

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