

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 162902****Date: 28/11/2014****Subject Name: Advance Fabric Structure & CAD****Time: 02:30 pm - 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.

- Q.1** (a) Draw Design, Draft & Pegplan for extra weft figuring using two extra weft in a continuous manner **07**
(b) With the help of suitable designs, explain the basic sheds formed using a flat steel slotted doup while producing leno fabrics. **07**
- Q.2** (a) Discuss any 2 special mechanisms in detail which are required for weaving of terry fabrics. **07**
(b) Construct spot effect on 30 x 30 with 3 spots in the repeat. (given fabric specifications 32 epi and 32 ppi). **07**
- OR**
- (b) Explain the construction of Damask & Brocade Fabrics. Also give the main points of difference between them. **07**
- Q.3** (a) Write a brief note on Terry Ornamentation. **10**
(b) Explain briefly the steps for developing a dobby design using CAD software. **04**
- OR**
- Q.3** (a) With the help of design, explain the construction of Spider leno. Also give its main characteristics. **07**
(b) Discuss advantages and disadvantages of extra warp figuring and extra weft figuring. **07**
- Q.4** (a) Explain in detail all the stages of constructing Jacquard design. **10**
(b) Construct only design for the Treble cloth. **04**
- OR**
- Q.4** (a) Give only designs for the following: **07**
i. Compound stripe pattern
ii. Compound check pattern
(b) Construct design, draft and peg-plan for warp Back cloth. **07**
- Q.5** (a) With the help of design and cross-section, explain Plain back velveteen and Twill back velveteen. **07**
(b) Give only designs for the following: **07**
i. Weft back cloth
ii. Double cloth with wadded warp
- OR**
- Q.5** (a) Give design, draft and pegplan for dog's tooth effect. **07**
(b) Give only designs for the following: **07**
i. Double cloth
ii. Centre warp stitched double cloth
