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SE-8313

B. E. III (Sem. V) (T. T.) Examination

May / June – 2011

Fabric Structure - I

(New Course)

Time : 3 Hours] [Total Marks : 100

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ B. E. 3 (Sem. 5) (T.T.)

Name of the Subject :

☛ Fabric Structure - 1 (New)

☛ Subject Code No. : 8 3 1 3 ☛ Section No. (1, 2,.....) : 1&2

Seat No. :

Student's Signature

1. **Answers to the two sections must be written in separate answer books.**
2. **Figures to the right indicate full marks.**
3. **Tie two sections separately.**

SECTION I

Q1a.) Do as Directed: [05]

i. Write the formula to calculate weft crimp.

ii. Regular Twill can be constructed only on odd number of repeat area in the design. (State True or False).

iii. Different interlacement of warp and weft is depend on end uses of fabric. (State True or False).

iv. In the area of the peg plan vertical spaces are equal to the number of Healds shafts required in the design. (State True or False).).

v. weft rib is also called as _____.

Q1b.) Draw **Design,Draft and Pegplan** for each of the following: [08]

I Irregular weft rib (4,3,2,2)

ii. Broken Twill (Base twill on 8x8, Horrizontal effect)

Q1c.) Explain with suitable designs how herringbone twill can be constructed more economically. [07]

Q2.a) Explain, with suitable diagrams, how (3/2) twill can be produced with Prominent, intermediate and subdued effect. [10]

Q2.b) Draw **only Designs** for each of the following: [05]

i. Brighton Honeycomb on (16x16)

ii. Twill on 75^{o}

OR

Q2(a.) Draw Design, Draft & Peg Plan for each of the following: [08]

i. Modified Hopsack

ii. Devon's Huck

Q2(b.) Draw **only Designs** for each of the following: [07]

i. Transposed twill in endwise direction in a group of 4.(Base twill is 3/3)

ii. Honeycomb of equal cell on (10x08)

iii. Twilled Hopsack

Q3 .) Write Short Notes on : (Any three) [15]

i. Importance of Fabric structure

ii. Relative Firmness of Twill weave

iii. Rib effect in Plain Weave

iv. Characteristics of Towelling fabric and weaves suitable for it.

SECTION II

Q4a.) Do as Directed [10]

i. Give two points of difference between Jeans & Denim.

ii. Name the types of crepe fabrics.

iii. Give the relation between ends per inch and warp cover factor.

Give only designs for the following:

iv. Diamond on 8 x 8.

v. Venetian.

Q4b.) Construct a spot on 20 x 20.(given fabric specifications 28 epi & 28 ppi). Incorporate a plain pattern of distribution. [10]

Q5) With the help of examples, discuss the methods of constructing crepe weave. [15]

OR

Q5) Give design & cross sections for the following: [15]

- Weft Way distorted thread effect.
- Ordinary & Wadded bedford cord.

Q6 .) Write Short Notes on : (Any three) [15]

i. Voile & crepe fabrics.

ii. Crepon Bedford cord.

iii. Classification of Fabrics based on Cover Factor.

iv. Rules for constructing irregular sateen.
