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B.TECH.
(SEM V) THEORY EXAMINATION 2020-21
FABRIC STRUCTURE & ANALYSIS

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections. If require any missing data; then choose suitably. Prepare the weaves on Graph paper

SECTION A

1. Attempt all parts.

10 x 2=20

- a) What are the elements of design?
- b) How many no. of heald frames required to make plain, twill & Satin weaves?
- c) What is denting order?
- d) Write the name of any 5 fabrics produced on plain weave.
- e) What is twill angle?
- f) What are twill weave derivatives?
- g) Write the quality particulars for heavy and lighter cloth of honey comb.
- h) Which are the weaves is suitable for terry towel.
- i) Write the names of the fabrics made on twill weave.
- j) What are the loom equipments necessary for manufacture extra thread figured fabric?

SECTION B

2. Attempt any three of the following

10 x 3=30

- a) Discuss in detail derivatives of plain weave?
- b) What is difference between ordinary honey comb and Brighton honey comb weave?
- c) Compare between extra warp and extra weft figuring.
- d) Explain the various derivatives of hopsack weaves.
- e) Compare between warp backed and weft backed fabric

SECTION C

3. Attempt any one parr of the following.

10

- a. construct any zig zag twill with draft and peg plan on graph paper
- b. Prepare design draft & peg plan of 7 thread warp cork screw weave.

4. Attempt any one part of the following.

10

- a. Diamond design based on 4/4 twill with draft & pegplan
- b. Diaper Design based on 4/4 twill with draft & pegplan

5. Attempt any one part of the following.

10

- a. Construct a Mock leno weave on 10 x 10 size repeat on a graph paper.
- b. Prepare 3 x 3 matt weave with draft and peg plan.

6. Attempt any one part of the following.

10

- a. Prepare the Barley corn weave on graph paper.
- b. Prepare the Twilled hopsack on graph paper.

7. Attempt any one part of the following.

10

- a. Construct rip stop weave.
- b. Sketch the Design, draft and peg plan on graph paper of extra wrap figuring in one color for the following motif. Ratio between Plain grounds to ~~to~~

	x	x	x	x		
	x	x	x	x	x	x
x	x	x	x	x	x	x
x	x			x	x	x
x	x			x	x	x
	x	x	x	x	x	x
	x	x	x	x	x	x
		x	x			

figuring threads is 1:1.

	x	x	x	x		
	x	x	x	x	x	x
x	x	x	x	x	x	x
x	x			x	x	x
x	x			x	x	x
	x	x	x	x	x	x
	x	x	x	x	x	x
		x	x			

Extra warp Motif in one colour