UNIT–I

1 Answer any two questions : 2x10=20

(a) Classify the fabrics according to structure. Describe about weave repeat unit with suitable diagram. What is the relation between design, draft and lifting plan ?

(b) Describe the effect of twist on prominency of twills?

(c) How are plain weaves made? Make graph for a plain weave. Discuss about rib and cord effects.
UNIT–II

2 Answer any two questions : \[2 \times 10 = 20\]

(a) Distinguish between sateen and satin weaves. Briefly explain the difference between (i) regular satins and sateens (ii) irregular satins and sateens.

(b) What are the methods of constructing crepe weaves? Explain the construction of diamond designs.

(c) Write a note on fabric structure of mock leno weaves? Compare features of Mock leno with Leno.

UNIT–III

3 Answer any two questions : \[2 \times 10 = 20\]

(a) What are weft backed clothes? Briefly describe reversible weft backed weaves and hop sack weaves.

(b) Explain with examples double cloth stitched with layer interchange principle? Describe the production of four colour design with the use of double cloth technique.

(c) What are the classification of backed fabrics? Show the design and drafting of a warp backed fabric to be used is worsted suiting. Briefly discuss the fustian cutting for velveteens and corduroys.
UNIT–IV

4  Answer any two questions :  $2 \times 10 = 20$
(a) Discuss the formation of terry pile structure? How is terry weave different from weft pile and warp pile?
(b) Write a detailed description of extra attachments required to set a terry pile loom.
(c) What is extra warp effect? Explain it with the help of suitable design and draft. Also describe the advantages and disadvantages of extra warp design.

UNIT–V

5  Answer any two questions :  $2 \times 10 = 20$
(a) What are the common cloth setting theories? Describe the specification of suiting fabric and dressing material.
(b) Establish relationship amongst cloth cover with count and thread density.
(c) Assuming all necessary datas work out the weight in grams per squaremeter (g/m$^2$) of a selected fabric.

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