



17571

21415

3 Hours/100 Marks

Seat No.

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- Instructions :** (1) **All** questions are **compulsory**.
(2) Answer **each** next **main** question on a **new** page.
(3) Illustrate your answers with **neat** sketches **wherever** necessary.
(4) Figures to the **right** indicate **full** marks.
(5) **Assume** suitable data, if **necessary**.
(6) **Use** of Non-programmable Electronic Pocket Calculator is **permissible**.
(7) Mobile Phone, Pager and any other Electronic Communication devices are **not permissible** in Examination Hall.
(8) Use **point paper** for drawing **designs**.

MARKS

1. Attempt **any ten** :

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- Why two weaver's beams are required for weaving welt structures ?
- State the main difference between bed-ford cord and welt from point of view of its appearance in fabric.
- What are backed cloths ? Draw a reversible weft backed cloth design. State its characteristic.
- List down various types of double cloths you are aware of.
- How stitching of two layers is accomplished in self stitched double cloth ?
- How stitching of two separate layers is accomplished in interchanging double cloth ?
- Draw detail design of extra weft figure assuming your own small motif.
- List down various methods of producing gauze and leno structure.
 - What is bottom doubling ? Elaborate your answer with a sketch.
 - Give classification of pile structure.
 - Give classification of velveteens.
 - Draw design of cross tuck.
- Draw design of terry pique.
- State the concept of patterning with multi cam tracks.
- Explain what do you mean by knit cam, tuck cam and miss cam.

P.T.O.

2. Attempt **any four** :

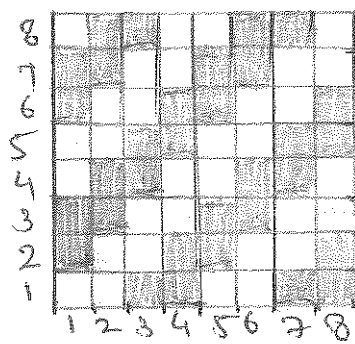
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- Construct design, draft and peg-plan of wadded bed-ford cord. Draw cross section of the same. What is the purpose of wadding ends ?
- Draw design of twill faced bed ford cord.
- Draw design of wadded welt. Draw draft, peg plan and cross section of the same. What is the purpose of stitching ends ?
- Draw design, draft and peg plan of pique structure. Elaborate different special requirements for development of welt and pique structures during weaving.
- Compare welt with pique structure.
- Construct a weft-backed cloth in which 2/2 twill is backed by 8 end sateen weave.

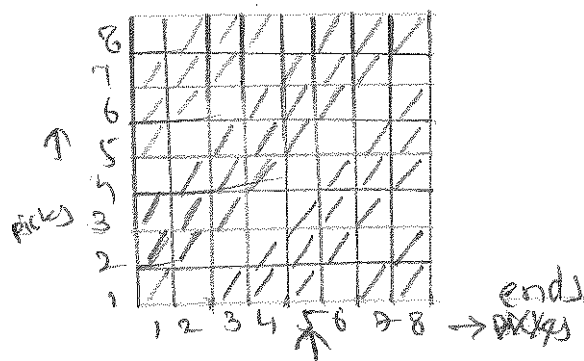
3. Attempt **any two** :

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- Construct a weft backed warp wadded design. Draw design and cross section.
- Describe various methods of disposing surplus extra threads in case of extra thread figuring.
 - Compare extra warp figuring with extra weft figuring.
- Construct a self stitched double cloth from following data. Draw cross section of the same.



(Face weave)



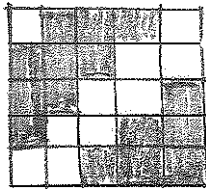
(Back weave)

- Arrangement of warp – 1 face, 1 back
- Arrangement of weft – 2 face, 2 back
- Type of stitching used – Raising of back end on face pick.

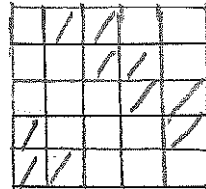


4. Attempt **any two** :

a) Construct a center warp stitched double cloth from the following data.



(Face weave)



(Back weave)

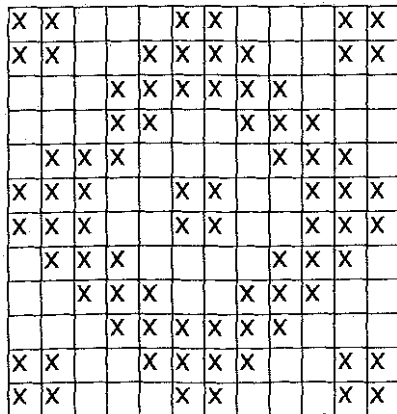
- Arrangement of warp – 1 face, 1 back

- Arrangement of weft – 1 face, 1 back

2 stitching ends inserted in a repeat of double cloth weave.

Draw cross-section of the same.

b) What are interchanging double cloths ? How stitching of double cloths is accomplished ? Construct an interchanging double cloth (cloth interchange) corresponding to following motif.

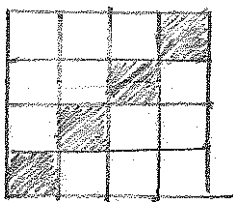


c) i) Elaborate the difference between continuous extra warp figuring and intermittent extra warp figuring.

ii) Draw Russian cord structure.


5. Attempt any two :

- a) Describe leno weaving with flat steel doup with an eye. Draw a leno structure (design, draft and peg-plan) showing all possible sheds on flat steel doup with an eye.
- b) Draw design, draft and peg plan of counter leno structure produce with 2 leno assemblies.
- c) i) Draw structure of plain back velveteen using following pile weave.



Draw cross section before and after cutting operation and explain how weft-pile is produced.

- ii) List down various methods to produce terry fabric.

6. Attempt any two :
16

- a) i) With help of a figure explain 3-pick pile is produced in terry weaving.
 ii) Draw design of swiss pique. Give needle order and cam order for the same.
- b) Draw design, needle order and cam order for any two of the following structures
 - i) Punto-de-roma
 - ii) Pin tuck
 - iii) Ottoman rib.
- c) i) Describe with diagram how twill effect on four feeder can be obtained on single jersey multi cam track machine.
 ii) Elaborate how square pattern can be produced in weft-knitting.
