17571

15116

3 Hours / 100 Marks Seat No. | | | | | | | | |

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.*

Marks

1. Attempt **any ten** : **20**

a) What is the function of wadding ends used in constructing Bed-ford cord, welt and pique structure ?

b) State the direction of cords obtained in following structures.
   i) Bebford cord ii) Welt

c) Classify backed cloth into different categories.

d) Explain the principle used in construction of backed cloth.

e) List down various types of double cloths.

f) How stitching of two cloth layers is done in case of self stitched double cloth ?

g) Elaborate the stitching in 'centre stitched double cloth'.

h) State various methods of introducing extra figuring threads.

i) List down various methods of producing gauze or leno structures.

j) Draw 'Russian cord' structure.

k) Give classification of pile structure.

l) Draw a design of 3 pick terry.

m) Draw design of 'cross tuck'.

n) Draw design of 'Punto-di-roma'.

o) Explain single jersey patterning using knit and miss stitches, with two feeders.

Marks

2. Attempt **any four**: **16**

a) Construct design, draft, peg-plan and cross section of plain face wadded bed ford cord. Describe its characteristics.

b) Construct design, draft, peg-plan and cross-section of wadded welt. What is the function of stitching ends ?

c) Draw design, draft and peg-plan of wadded pique.

d) Construct a reversible warp backed cloth.

e) Construct a reversible weft backed cloth. Give your comment on the type of loom required to weave this design.

f) Construct a weft backed design having 2/2 twill weave backed by 8 end sateen.

3. Attempt **any four**: **16**

a) Construct design, draft, peg-plan and cross section of twill face bed ford cord.

b) Compare bedford cord with welt.

c) Draw design and cross section of warp wadded weft backed cloth with following particulars.

Face weave – $\frac{4}{4}$ twill backing weave – $\frac{1}{7}$ twill

Arrangement of warp and weft – 1 face, 1 back.

d) Construct design and cross section of self stitched double cloth woven with following particulars.

i) Face weave – $\frac{3}{3}, \frac{1}{1}$. twill

ii) Back weave – $\frac{3}{3}, \frac{1}{1}$. twill

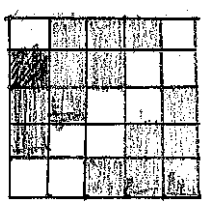
iii) Arrangement of warp and weft – 1 face, 1 back.

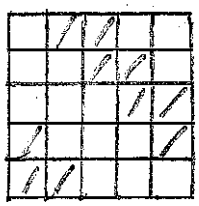
iv) Both type of stitchings are to be used.

e) Construct reversible self stitched double cloth. Draw design and cross section (Assume suitable data).

f) Construct centre warp stitched double cloth from following data :

Face weave Back weave





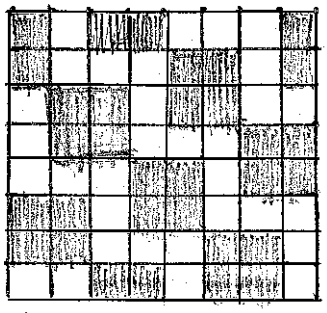
(2 stitching ends to be inserted in one repeat of double cloth weave)

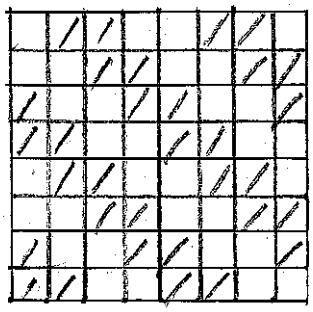
Marks

4. Attempt **any four**: **16**

a) Construct a warp wadded self stitched double cloth from following data :

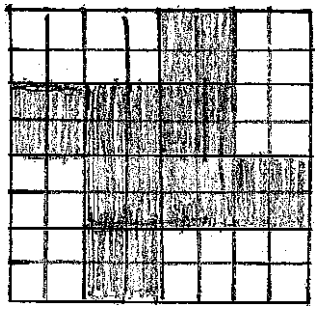
Face weave Back weave





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

b) Construct weave of interchanging backed cloth corresponding to following motif :



c) List down various methods of disposing extra surplus threads in extra thread figuring.

d) Compare extra warp figuring with extra weft figuring (only 4 points).

e) Draw weave of extra warp figuring assuming your own motif.

f) Construct a design, draft, peg-plan of a Leno design produced with flat steel doup with an eye.

5. Attempt **any four**: **16**

a) Construct a design, draft and peg plan of a leno structure produced with flat steel doup with a slot (slotted doup).

b) How different types of interlacements are achieved in adjacent leno groups, by using special lift of standard ends ?

c) Draw design of counter leno, draw draft and peg-plan as well.

d) Draw design of a plain back velveteen with ½ twill as pile weave. Illustrate how weft piles are produced in this structure by drawing cross section before and after cutting.

e) List down various mechanisms required for terry weaving.

f) With the help of cross sections, explain how warp pile (terry pile) structure is produced in terry weaving.

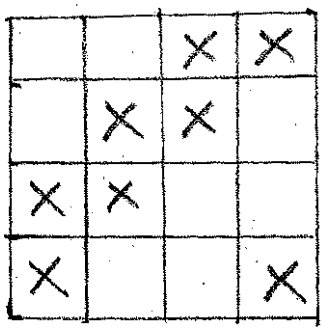
Marks

6. Attempt **any four**: **16**

a) Draw diagrammatic notation of 'Honey comb'. Draw design, needle order and cam order for 'Pique'.

b) Draw design, needle order and cam order for 'Pin tuck'.

c) Give needle order and cam order for following single jersey structure.



d) Explain patterning in single jersey with multi cam track, knit-tuck-miss and three feeder supply.

e) Draw design, needle order and cam order for 'Ottoman Rib'.

f) Explain how horizontal and vertical stripe patterns are produced in knitting.