17571

16117

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.*
(8) Use of Steam tables, logarithmic, Mollier's chart is ***permitted****.*
(9) Provide design papers.

Marks

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

a) What is the purpose of cutting ends and cord ends in Bed-ford cord structure ? What is the characteristic of Bed-ford cord ?

b) List down various special requirements for development of Welt and Pique structures during weaving.

c) What are backed cloths ? What is the purpose manufacturing backed cloth ?

d) Draw design of reversible warp backed cloth.

e) List down different types of double cloths you are aware.

f) How stitching takes place in centre stitched double cloth ?

g) What is bottom douping ? Explain it with the help of a diagram.

h) Elaborate the difference between Gauze and leno structure.

i) Draw a small extra warp figuring design assuming your own motif.

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

Marks

k) Give classification of pile structure.

l) Draw design and cross section of a 4 pick terry weave.

m) Draw Russian cord structure.

n) Draw design of cross tuck [Symbolic Notation].

o) Differentiation between knit, tuck and miss stitch.

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

a) Draw design, draft, peg-plan and cross section of a plain faced wadded bed-ford cord.

b) Construct a weft backed cloth with 3/1 twill backed by 8 end sateen weave. Draw cross section.

c) Explain with help of schematic diagrams various types of double cloths.

d) Construct a extra weft-design assuming your own motif.

e) Elaborate basic sheds of leno weaving with help of diagrams.

f) With the help of a diagram, explain how warp pile is produced on terry loom.

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

a) Draw design, draft and peg plan of twill face Bed-ford cord.

b) Construct a self stitched double cloth design working with following particulars

Face weave – 4/4 twill

Back weave – 4/4 twill

Arrangement of warp and weft – 1 face, 1 back. Draw cross-section.

c) Compare warp backed cloth with weft backed cloth.

d) Compare Extra warp figuring with Extra weft figuring.

e) Explain with the help of a diagram how twilled leno effect is obtained by special life of standard ends.

f) Give classification of velveteens. Draw design of a plain back velveteen with $\frac{1}{3}$ twill as pile base weave.

Marks

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

a) Draw design, needle order and cam order of 'Swiss Pique'.

b) Explain with the help of an example single jersey patterning with multi cam track.

c) Draw design and cross section of wadded welt. List down various special mechanisms required to weave this fabric.

d) What is wadded backed cloth ? Draw design of warp wadded weft backed cloth. (Assume suitable data)

e) Construct a centre warp stitched double cloth from following particulars.

Face weave – $\frac{3}{1}$ twill

Back weave – $\frac{2}{3}$ twill

(Two stitching ends to be added in one repeat of double cloth weave).

f) Elaborate difference between Intermittent and continuous extra warp figuring.

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

a) Draw design, needle order and cam order for 'Punto-di-roma'.

b) Draw tuck stitch diagram. Explain how this stitch is produced.

c) Draw design of a 'Pique' structure. Explain the characteristics of the same.

d) Elaborate the various mechanisms required on loom to weave :

i) warp-backed cloth

ii) weft-backed cloth.

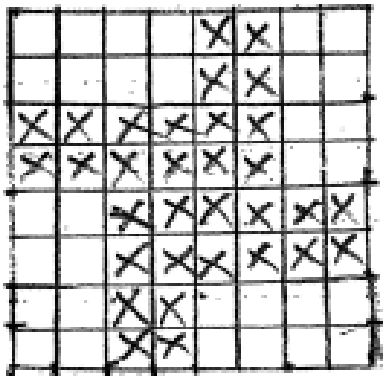
e) How stitching takes place in centre weft stitched double cloth ? Explain your answer with the help of a design and cross section of a centre weft-stitched double cloth.

f) Construct a leno design produced on flat steel doup with an edge. Show all possible sheds, draw healdshaft and peg-plan.

Marks

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

a) Construct an interchanging double cloth corresponding to following motif.



b) Construct a leno design produced on flat steel doup with a slot. Show all different possible sheds. Draw draft and peg-plan.

c) List down various special mechanisms required for terry weaving.

d) Draw design, needle order and cam order of 'Pique Poplin'.

e) Explain how square pattern is obtained on single jersey machine.

f) i) Draw design of a Pin tuck

ii) Explain with help of an example how different designs can be produced on single jersey machine using colour patterns of two colours.
