



17348

15116

3 Hours / 100 Marks

Seat No.

--	--	--	--	--	--	--	--

- Instructions :** (1) *All questions are compulsory.*
(2) *Illustrate your answers with neat sketches wherever necessary.*
(3) *Figures to the right indicate full marks.*
(4) *Assume suitable data, if necessary.*
(5) *Use of design paper wherever required.*

Marks

1. Attempt any ten :

20

- Define Draft with suitable example.
- What is EPI and PPI ?
- Explain concept of interlacement of warp and weft.
- State the characteristics of plain weave.
- Classify the plain weave.
- State characteristics of twill weave.
- Enlist the various derivatives of twill weave.
- Classify the colour and weave effect.
- State the characteristics of honey comb structure fabric.
- State the characteristics of satin weave.
- State quality particulars of poplin fabric.
- Draw design, draft and peg plan of $\frac{3}{3}$ twill weave.
- Explain salient features of demin fabric.
- Define design and lifting plan.

2. Attempt any two.

16

- Explain basic operation in woven fabric production.
- Explain various derivatives of plain weave with suitable example.
- Draw design, draft and peg plan of Herringbone twill with base twill of $\frac{4}{4}$. Also explain characteristics of Herringbone twill.

P.T.O.

**3. Attempt any two :****16**

- a) Describe the various types of draft.
- b) What is Matt weave ? Give design, draft and lifting plan of $\frac{4}{4}$ matt weave.
- c) What is warp face and weft face twill weave ? Explain it with suitable examples.

4. Attempt any two :**16**

- a) Give the design, draft and peg plan for a brighton honey comb weave on a repeat of 12×12.
- b) Give the design for a bird eye line effect with following particulars
 - 1) Weave – $\frac{2}{2}$ twill.
 - 2) Order of warping – 2 dark and 2 light.
 - 3) Order of wefting – 1 dark and 1 light.
- c) Differentiate between satin and sateen weave with suitable diagram.

5. Attempt any two :**16**

- a) Give the design for step pattern with following particulars.
 - i) Weave – $\frac{4}{4}$ twill
 - ii) Order of warping – 2 dark and 2 light.
 - iii) Order of wefting – 2 dark and 2 light.
- b) Mention the loom equipment required for manufacturing of huck a back weave. Give design, draft and peg plan for huckaback weave on a repeat of 8×8.
- c) State the characteristics of crepe weave. What are various methods for construction of crepe weave ? Explain any one of them with suitable example.

6. Attempt any two :**16**

- a) Explain development steps of regular and irregular satin with suitable example.
 - b) Explain concept, development of perforated meek leno fabric.
 - c) Differentiate between distorted warp thread effects and distorted weft thread effect.
-