

22464

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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 FIVE of the following.** **10**
- a) Draw plain weave interlacement diagram. Also draw graphical representation of this interlacement on graph paper.
 - b) Draw all possible designs of 8 end sateen.
 - c) State the concept of unbalanced twill ? Draw an unbalance twill.
 - d) Classify twills into different categories.
 - e) Draw interlacement diagram of 5 end sateen or satin and state its characteristics.
 - f) Give classification of colour and weave effect.
 - g) Develop a crepe weave by the method of reversing.

P.T.O.

- 2. Attempt any THREE of the following. 12**
- a) Elaborate the relationship between design, draft, peg plan, denting plan using a suitable design.
 - b) Construct a satin stripe design. Draw corresponding draft and peg plan.
 - c) State advantage of skip draft. Draw skip draft and corresponding peg plant of 2/2 twill weave.
 - d) Draw design, draft, peg-plan and cross section of all derivatives of plain weave.
- 3. Attempt any THREE of the following. 12**
- a) Explain the method to produce Rib and cord effects in plain weave.
 - b) Explain ornamentation of plain weave with respect to
 - i) changing colour
 - ii) changing count
 - c) Explain how plain weave can be ornamented by
 - i) changing twist level
 - ii) changing tension level
 - d) Draw design, draft and peg plan of pointed twill on 8 heald shafts.
- 4. Attempt any THREE of the following. 12**
- a) Construct design, draft and peg plan of curved or wavy twill on 6 heald shafts.
 - b) Draw design of combination of following two twills.
 - i) 2/2 twills
 - ii) 3/3 twill
 - c) Draw all possible sateen weaves on 9 ends.
 - d) Draw interlacement diagram of an irregular sateen weave on 6 ends. Draw corresponding design, drafts and peg-plan.
 - e) Construct a sateen checks design. Draw drafts and peg-plan for the same.

- 5. Attempt any TWO of the following. 12**
- a) Construct a step pattern on 18 ends 18 picks using 3/3 twill.
 - b) Construct Hound's tooth pattern on 16 ends and 16 picks.
 - c) Construct following simple colour and weave effects
 - i) Horizontal Hairline effect using 2/1 twill.
 - ii) Vertical hairline effect using 2 x 2 mat weave.
- 6. Attempt any TWO of the following. 12**
- a) Construct following crepe weaves
 - i) crepe on sateen base
 - ii) By combination of floating weave upon plain threads.
 - b) i) Construct Hack-a-back weave on 10 ends and 10 picks. State its characteristics
 - ii) Construct a 4 x 4 mockleno weave. Draw design, draft, peg-plan and denting plan of the same. State characteristics of it.
 - c) Draw Brighton Honey-comb weave on 20 ends and 20 picks. State characteristics of Brighton Honey Comb Weave.
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