17345

16172

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 of the following: **20**

a) State the function of lease rod in sectional warping machine.

b) State the objectives of direct warping.

c) Why stop motion required on a creel of warping machine.

d) List down different types of creels used in warping machine.

e) What is the use of tensioning device in the yarn path on warping machine.

f) List various types of shed produced by dobbies with neat line diagrame.

g) State the advantages of cam dobby over conventional dobby. (Any four)

Marks

h) Why heald reversing mechanism is require on a loom fitted with Jacquard or Dobby.

i) State the necessity of drop box mechanism.

j) List various types of drop box.

k) State significance of card saving mechanism on drop box.

l) How many weft colours can be mixed in 3×1 drop box mechanism and why.

m) Explain the term casting out in Jacquard shedding.

n) What is card lacing?

o) List down different types of Jacquard.

2. Attempt any FOUR of the following: **16**

a) Describe with labelled sketch a passage of warp on sectional warping machine.

b) Describe different type of creels used on beam warping machine with their merits and demerits.

c) State the Modern feature of Beam warping machine.

d) A Beam warping machine working with following parameters.
Warping speed - 900 mpm
Warp count - 40^5 combed (Ne)
No. of end per beam - 480
Efficiency - 78%
Calculate the production of Beam Warping machine in meters/shift and kg/shift (Shift of 8 hrs.)

e) Illustrate the method of pegging for Left handed dobby.

f) State the advantage of rotary dobby.

Marks

3. Attempt any FOUR of the following: **16**

a) Differentiate between direct and indirect warping.

b) Explain method of selection of heald frame on paper dobby with labelled sketch.

c) Draw neat labelled diagram of keighley dobby.

d) Explain working of Rotary dobby with neat sketch.

e) State Important parts of Jacquard and describe use of lingo.

f) Write the feature of Modern Jacquard.

4. Attempt any TWO of the following: **16**

a) Describe the working of Eccle's drop box motion.

b) Describe the working of selection mechanism for 3-cylinder cross-border dobby.

c) Explain following setting of climax dobby.

(i) Knife setting

(ii) Cylinder setting.

5. Attempt any FOUR of the following: **16**

a) Explain pick-at-will motion.

b) Draw a diagram of cowburn and peck drop box motion.

c) Draw diagrams of different types of card used in box motion and draw pattern chain without. Card saving for weft pattern as below

Red - 4 picks
Blue - 6 picks
Green - 2 picks
Yellow - 2 picks
Blue - 4 picks
Red - 2 picks

20 picks

Marks

d) Sketch construction of Piono card cutting machine and label the parts.

e) Describe the construction and working of electronic Jacquard.

f) List modern developments in sectional warping machine.

6. Attempt any TWO of the following: **16**

a) Describe with neat sketch construction and working of double lift double cylinder Jacquard.

b) Describe the working of cross-border Jacquard with labelled figure.

c) (i) Describe briefly various sizes and figuring capacity of Jacquard.

(ii) Draw diagram of Norwich tie and explain the same.
