17345

14115

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.

MARKS

1. Attempt any ten:

20

- a) State the objects of beam warping.
- b) What is the objective of tensioning devices? List down various types of tensioning devices used on warping machine.
- c) State the function of lease rod on sectional warping machine.
- d) List down different types of sheds formed in weaving.
- e) State the advantages of dobby shedding mechanism over tappet shedding mechanism.
- f) Differentiate between single lift dobby and double lift dobby.
- g) Which types of fabrics are woven on cross burden dobby looms? Explain in brief.
- h) State the objectives of drop box mechanism. List down various types of drop box motions.
- i) State the importance of safety device on drop box mechanism. Give an example of the same.



MARKS

- j) What is weft mixing? How it is done?
- k) State the objective of card saving devices.
- I) State the principle of Jacquard shedding.
- m) List down various types of Jacquard you are aware of.
- n) State the advantages of centre tie or point tie over repeating tie.
- o) List down various types of harness ties you are aware of.

2. Attempt any four:

16

- a) Draw diagram of direct warping (beam warping) machine and label the parts.
- b) List down various types of creels used on beam warping machine. State their relative merits and demerits.
- c) Draw diagram of passage of warp through sectional warping and label the parts.
- d) Explain stop motion on beam warping machine.
- e) State salient features of modern beam warping machine.
- f) Calculate the production of beam warping machine in yds/shift and Kg/shift from following data:

Warping speed - 600 yd/shift

Efficiency – 60%

Number of ends on beam = 500

Count of yam warped = 30^s cotton

Calculate the number of beams produced per shift if length of warp on each beam is 14400 yds.

17345

	Marks
3. Attempt any two:	16

- a) Draw diagrams of different sheds formed by various dobby shedding mechanisms. State their relative merits and demerits.
- b) Explain the working of climax dobby with the help of a neat diagram.
- c) Explain the working of cross border dobby with the help of a neat diagram.

4. Attempt any two:

16

- a) With the help of a neat diagram explain the working of Rotary dobby.
- b) i) Explain the method of lattice pegging of right hand dobby assuming your own peg-plan.
 - ii) Compare conventional dobby with cam dobby.
- c) Describe the working of cow-burn and peck drop box motion with the help of a neat diagram.

5. Attempt any two:

16

- a) Draw diagram of different card used on drop box mechanism (Indicate the type of box change in front of each diagram). Prepare a pattern chain of cards (without card saving device) assuming your own weft pattern.
- b) Explain the working of pick-at-will box motion with the help of a neat diagram.
- c) Explain the working of double lift double cylinder jacquard with the help of a neat diagram.

6. Attempt any four:

16

- a) Explain the type of shed formed in double lift single cylinder jacquard. What is its advantages.
- b) Write a detailed note on figuring capacity of jacquard.

Marks

- c) Draw diagram of Norwich tie and explain the same.
- d) What is casting out in jacquard? Briefly explain how it is done giving an example.
- e) Describe the method of transferring an artist's sketch on jacquard point paper.
- f) State features of electronic jacquard. State advantages of electronic jacquard over mechanical jacquard.
- g) What is count of point paper in jacquard designing? How it is decided? What is its importance?
