16117		
3 Hours /	100	Marks

Seat No.

- **Instructions**: (1) All Questions are *compulsory*.
 - Answer each next main Question on a new page. (2)
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - of Non-programmable Electronic Pocket Calculator is permissible.

Marks

1. **Attempt any FIVE:**

20

- What are objects of warping? Classify warping machines. (a)
- What are different types of sheds formed? Explain each with neat figure. (b)
- (c) Briefly describe various shed forming mechanisms.
- (d) Enlist various types of dobbies you know. Differentiate between positive dobby and negative dobby.
- Explain different types of drop box motion used briefly. (e)
- (f) Why 4×1 multiple box motion are required in weaving check fabric.
- Differentiate between mechanical and electronic Jacquard. (g)

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2. Attempt any TWO:

16

- (a) Explain types of creels used on beam warping with their relative merits and demerits.
- (b) Explain passage of warp through Beam warping machine with neat figure.
- (c) Calculate production of a beam warping machine from following particulars and also no. of ends/beam.

Creel capacity = 600 cones

Fabric width = 63 inches

Ends/ Inch = 60

Warp count = 40° Ne

Warping speed = 650 mts/min.

Efficiency = 68%

3. Attempt any TWO:

16

- (a) Draw 3/2, 2/1 twill weave and show right hand and left hand dobby. Pegging with neat figure.
- (b) Explain construction and working of keighly dobby with neat sketch.
- (c) Differentiate between Conventional dobby, Cam dobby and Paper cam dobby.

4. Attempt any TWO:

16

- (a) Describe construction and working of eules drop box motion with neat figure.
- (b) What is need of cross border dobby? Explain construction and working of a cross border dobby with neat sketch.
- (c) What are different types of cords used for drop box motion? Prepare a cord chain for following pattern:
 - 8 Red, 20 Blue, 16 Yellow, 10 White

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5. Attempt any TWO:

- (a) What is need of Jacquard Shedding? Explain with neat figure construction and working of single lift single cylinder Jacquard.
- (b) Describe process of "Cord lacing" and casting out from Jacquard.
- (c) Explain modern developments of modern Jacquard.

6. Attempt any TWO:

16

- (a) Explain with neat figure Double lift Double Cylinder Jacquard.
- (b) Explain salient features of modern warping machine.
- (c) Write short notes on following:
 - (i) Pick and pick mechanism
 - (ii) Pick at will mechanism

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