22462

11920

3 Hours / 70 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. Answer any FIVE of the following: **10**

a) State the objectives of PIRN WINDING.

b) List the functions of pirn winding process.

c) State requirements of pirns for Automatic Looms.

d) State functions and need of DRAWING - IN

e) State various PRIMARY MOTIONS in PLAIN POWER LOOM.

f) State need and functions of secondary motions in Plain Power Loom.

g) Classify of WOVEN FABRIC DEFECTS.

Marks

2. Answer any THREE of the following: **12**

a) Describe with sketch the working of cone over pick mechanism ?

b) Classify the types of SHEDS and compare their merits and demerits.

c) List the types of DRAFTS and describe the concept of Peg-plan with relevant example.

d) State Basic concept of DESIGN, DRAFT and PEG-PLAN.

3. Answer any THREE of the following: **12**

a) Describe with sketch the passage of yarn through pirn winding machine.

b) Describe the "STUCK-PORT" system of REED COUNT and calculate the number of ends per inch if Reed count is 80, No. of ends / dent are 2.

c) Describe with sketch the working of Crank Beat-up mechanism on power loom.

d) State the functions of Let-off and Take-up mechanism on plain power-loom

4. Answer any THREE of the following: **12**

a) Draw Tappet shedding mechanism with name of various parts.

b) Describe the working of TAPPET SHEDDING MECHANISM.

c) Draw only neat sketch of SEVEN WHEEL TAKE-UP MECHANISM with name of parts.

d) Draw schematic figure of side weft fork mechanism and explain its working.

e) Draw diagram of SHUTTLE BOX, name each part. Explain the function of each part.

Marks

5. Answer any TWO of the following: **12**

a) State the causes of following defects in fabric.

(i) Wrong Drawing.

(ii) Lashing - in

(iii) Temple marks.

b) Suggest the remedies for following woven fabric defects.

(i) Broken end.

(ii) Starting marks.

(iii) Weft Bars.

c) Determine the weight of warp by using following parameters.

(i) Fabric Length :- 1000 meter

(ii) Ends per inch :- 48

(iii) Yarn count :- 60 Ne.

(iv) Fabric width :- 60 inch.

(v) Warp (Crimp) :- 4%

6. Answer any TWO of the following. **12**

a) Describe the construction and working of Let-off motion with sketch.

b) List the important particulars required for construction of PLAIN LOOM TAPPET.

c) Calculate the loom production in meters / day, if loom speed is 198 and PPI is 54, machine is running with 65% efficiency.
