17345

21415

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** : **20**

a) State objectives of beam warping.

b) State the function of expanding comb on beam warping machine.

c) State the importance of leasing on sectional warping machine.

d) State main advantages of dobby shedding mechanisms over tappet shedding mechanisms.

e) Elaborate difference between positive dobby and negative dobby.

f) Elaborate the necessity of two cylinder and three cylinder in cross border dobby.

g) State the function of modulator and reading in mechanism on Rotary dobby.

h) State the objects of multiple box motion.

i) List down various types of multiple box motions.

j) Explain the concept of weft mixing. Why it is done ?

k) List down different types of Jacquards.

l) Classify Jacquards depending on the type of shed formed.

MARKS

m) What is 'casting out' in Jacquard designing ?

n) State the advantage of double lift Jacquard over single lift Jacquard.

o) State the principle of Jacquard shedding with the help of diagram.

2. Attempt **any four** : **16**

a) Draw schematic diagram of beam warping machine and lable the parts.

b) Give a brief account for different types of creels used and their relative merits and demerits.

c) State importance of stop motion on beam warping machine. State its relation with beam quality.

d) Draw schematic diagram of sectional warping machine and lable the parts.

e) Compare beam warping with sectional warping.

f) Calculate the production of beam warping machine in yards/shift-and lbs/shift from the following data :

i) Warping speed – 600 yards/min.

ii) Efficiency of machine – 70%

iii) Length of warp on beam – 12600 yards

iv) No. of ends on beam – 524

v) Count of warp = 30^s cotton.

Also find out the number of warping beams produced in a shift of 8 hours.

3. Attempt **any two** : **16**

a) Explain the working of climax dobby with the help of a neat diagram.

b) What is right hand dobby and left hand dobby ? Explain the method of pegging a right hand dobby assuming your own peg plan.

c) Draw a neat labelled diagram of paper pattern dobby and explain its working.

MARKS

4. Attempt **any two** : **16**

a) Explain the working of Cowburn and Peck's drop-box motion with the help of a neat diagram.

b) Draw diagrams of different types of cards used for in box motions and draw pattern chain without card saving for following weft pattern :

White	8 picks
Red	2 picks
Blue	2 picks
Yellow	2 picks
Blue	2 picks
Red	2 picks
Total	**18 picks**

c) With the help of a neat diagram explain the working of Eccle's drop box motion.

5. Attempt **any four** : **16**

a) Compare conventional dobby with cam dobby.

b) Explain the significance of cylinder selection mechanism of cross border dobby.

c) State features and advantages of rotary dobby.

d) Write a detailed note on figuring capacity of Jacquard.

e) Compare Jacquard shedding mechanism with dobby shedding mechanism.

f) Write down various features of electronic Jacquard and state its advantages.

MARKS

6. Attempt **any two** : **16**

a) Explain working of single lift single cylinder Jacquard with the help of a neat diagram.

b) Explain working of double lift double cylinder Jacquard with the help of a neat diagram.

c) Cross border Jacquard is used for weaving which type of fabrics ? Explain the working of cross border Jacquard with the help of a neat diagram.
