# 313346

*Instructions –*   (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answer 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 <u>FIVE</u> of the following:**    **10**

a) State the objective of pirn binding machine.

b) Draw the schematic figure of pirn used for automatic looms.

c) Enlist the secondary motions of plain power loom m/c.

d) State the functions of oscillating back rest mechanism.

e) State the objects of temple mechanism in power loom.

f) Enlist any two warp way details in fabric.

g) Enlist any two weft way defects in fabric.

**Marks**

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

    a) Describe the working of negative tappet shedding mechanism.

    b) Distinguish between over pick mechanism and under pick mechanism.

    c) Explain the working of over pick mechanism with help of neat diagram.

    d) State the importance of let-off mechanism. List the disadvantage of negative let-off mechanism.

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

    a) Draw the schematic figure of crank beatup mechanism and label its parts.

    b) Describe with neat sketch passage of yarn through pirn winding machine.

    c) Elaborate the concept of eccentricity of sley with help of diagram.

    d) Describe the working of Negative let-off mechanism.

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

    a) Enlist the features of pirn winding machine.

    b) i) State the concept of early shedding and later shedding.

       ii) State the concept of Reed Count.

    c) Describe the working of seven wheel take-up mechanism.

    d) Calculate the warp weight in gram if EPI is 40, warp crimp = 3y, warp count = 40 Ne, fabric width = 60", and fabric length = 1 meter.

    e) Describe the working of warp stop motion with neat sketch.

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

    a) Draw the schematic figure of shuttle box and label its parts.

    b) State the functions of following motions –

       i) Warp stop motion.

       ii) Warp protector motion.

    c) Give the detailed classification of fabric defects.

**Marks**

**6.** **Attempt any <u>TWO</u> of the following:** **12**

a) Explain different types of sheds with the help of diagram. Compare their relative merits and demerits.

b) Distinguish between the loose reed and fast reed mechanism.

c) Enlist the causes and remedies for following defects :–

    i)   Missing end

    ii)  Missing pier

    iii) Starting mark.

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