Q. 1: a) Filling in the blank
i) In plain power loom, the rotational speed of the crank shaft is _____ times the rotational speed of bottom shaft.
ii) Selvages of fabric are protected during weaving by ___________.
iii) Dobby mechanism is installed on _________________.
iv) Individual warp ends are controlled by _____________ in shedding.
v) Conversion of 46 Tex to Ne count is ____________ Ne.

b) Match the following
i) Traverse Drum  a) Reed Count
ii) Rubber Squeeze Rolls  b) Loom
iii) Let off Mechanism  c) Autoconer
iv) Stock Port System  d) Winding
v) Splicing Device  e) Sizing Sow Box

c) Write short answer
i) Why Yarn Clearer Device is installed on warp winding machine?
ii) State the object of sizing process.
iii) Purpose of installing of PLC (Programmable Logic Controller) Device on Sizing Machine.
iv) What is the difference between Side weft fork and Centre weft fork motion?
v) Define Cover Factor of a fabric.

Q. 2: a) Describe the various sizing ingredients used in Sizing with their purpose.
b) The length of yarn wound in 6 min. on a winding machine is 3600 meters. The Drum diameter is 101.6 mm. Calculate the rpm of the winding drum.

Q. 3: a) Describe different types of warping creels.
b) Describe modern developments & features of sizing machine

Q. 4: a) Describe the working principle of negative Let-Off motion with diagram.
Q. 5: a) Describe with diagram the passage of yarn on Sectional Warping Machine.
   b) Calculate the Avg. Count of 50s, 34s, 30s and 20s Cotton Yarn

Q. 6: a) Calculate the approximate length of sized yarn on weaver’s Beam in meter,
    if count of warp is 40 Ne & total ends are 9400 weighing 360 kgs.
   b) Describe with suitable diagram the Over Pick mechanism on Auto Looms

Q. 7: Draw the following Designs with proper Draft & Peg Plan (Use Graph Paper).
   i) 1/3 Twill
   ii) Crape
   iii) 5 End Sateen
   iv) Diamond Weave

Q. 8: Write short note on the following:
   a) Knotting Operation
   b) Humidification in Weaving Department
   c) Use of Adhesive in size mixing
   d) Types of Slub Catchers on Winding machine