Q1. a. What is the working principle of Jacquard shedding? (04).

b. State True or False
1. Size pick-up is expressed as a % increase in the weight of unsized yarn.
2. Sectional warping is an indirect warping system.
3. In the seven wheel Take-up motion all the gears except pick wheel and standard wheel are of definite value.
4. Jacquard weaving is used for weaving small patterns.

c. Fill in the blanks-
   i) In the ________ process a predetermined number of parallel ends are collected in a sheet form from cones which is wound on a beam.
   ii) The function of ________ is to squeeze out the excess amount of the size paste from the warp sheet during sizing.
   iii) In ________ weaves the threads form ridges and furrows which give a cell like appearance to the fabric.
   iv) In a ________ dobbi the up and down movement of the heald frame is done without the external device.

d. i) Calculate the resultant count if two polyester filament yarns of 60 and 80 denier (04) are folded together.
   ii) Convert 50 s English cotton count to Tex and Denier

e. Match the following –
   1. Crank arm
   2. Tension device
   3. Jacquard
   4. Mutton Tallow
   a. Pirm winding
   b. Beat-up
   c. Neck cord
   d. Size recipe
Q.2.  a. Explain the features of two cylinder sizing machine.  
       b. Classify Dobbies. Explain the principle and working of Cross border dobbey.

Q.3.  a. Draw design, draft and pegplan for a simple Diamond weave.  
       b. What are the features of Modern warping machine?

Q.4.  a. Calculate the production of Pirm winding machine in Kgs/ spindle if winding speed is 1000 mpm, Count is 20s Ne, Efficiency is 80 % and number of working hours are 8.  
       b. What is Eccentricity of Sley? Which factors affect eccentricity?

Q.5.  a. Draw design draft for Crepe and ordinary Honeycomb weave.  
       b. What are the different kinds of Shedding? Explain with the help of a diagram.


       b. Explain the working of a drop box motion.

Q.8.  a. Draw design, draft and peg plan of one Satin and Sateen weave.  
       b. Calculate the production of power loom in meters if picks per minute are 160, picks per inch are 68, efficiency is 82 % and number of working hours is 8.

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