

- xv) What are the different type of tensioners used in warping process?

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Give the passage of material through a modern slasher sizing machine with suitable diagram.
- Q.4 Give a comparison between direct and sectional warping with respect to the process, packages and preferred application area.
- Q.5 Write about the working of sectional warping machine and their limitations with suitable diagram.
- Q.6 Suggest a typical recipe for the sizing of nylon spun yarn. Also mention the function of each constituent element and the parameter for the optimal result.
- Q.7 A section warping machine is to produce a 4000 ends 3700 meter weaver's beam with 72 ends/inch of 25⁵Ne yarn. The creel capacity is 550. Calculate the number of section, the section width and ends per section.

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Roll No.

4th Sem. / Text.Tech

Subject : WEAVING PREPARATORY PROCESS-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What are objective of the sectional warping process?
- b) Where the measuring motion is situated in the slasher sizing machine?
- c) How many small steam heated cylinder are used in modern slasher sizing machines?
- d) What is the biggest advantage of starch?
- e) Why lease reed are essential for the sectional warping?
- f) Which type of knot is preferred for yarn joining during creel change time?
- g) Why sizing is required for zero twist multi filaments yarn?

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- h) What are the function of traverse reed?
- i) What is the principle difference between warper's beam and weaver's beam?
- j) Why tension control of warp sheet is very important for sizing processes?
- k) What is the significance of Dancing Roller in slasher sizing machine?
- l) Which warping machine has a warper drum?
- m) What is the recommended shore hardness of the squeeze roller for the cotton yarn sizing?
- n) What is use of Lubricants?
- o) What is Creel capacity.
- p) What is function of yarn guide in warping?
- q) What is the PVA & what is PVA use?
- r) What is the standard value of the moisture content of a sized cotton yarn?

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

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- Q.2
- i) What are the objective of sizing?
 - ii) Discuss the merits of section warping machines over direct warping machine.
 - iii) Discuss the sizing weaving curve.
 - iv) Discuss the significance of traverse reed in the sectional warping process.
 - v) Define the term size- add-on and size pickup.
 - vi) Classify the warping machine on the basis of different type of fabric production.
 - vii) Discuss the function of size box in a slasher sizing machine.
 - viii) What are the reason of size migration?
 - ix) Why P.V.A. is preferred in blend with starch for sizing of warp for shuttle less weaving?
 - x) What is the function of balloon-breaker in warping process?
 - xi) Write about different type of creel in warping process.
 - xii) Write about the sizing ingredients.
 - xiii) Write a note on hot air drying.
 - xiv) Write about common faults in warping.

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