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9/2/18

**Fourth Semester
Textile Technology
Scheme July 2008**

WEAVING PREPARATORY (402)

Time : Three Hours

Maximum Marks : 100

Note : Attempt total six questions. Question No. 1 is compulsory. From the remaining questions attempt any five.

1. State whether the following statements are True or False (T/F). 2 each
 - a) Pure size is desired after weaving.
 - b) Beam is the final package of warping.
 - c) Beam pressing motion is associated with winding machine.
 - d) Homogenizers are associated with sizing.
 - e) Nipper roller is fitted on a winding machine.

2.
 - a) Describe the passage of yarn through a multicylinder sizing machine with the help of a neat and labelled sketch. 14
 - b) What is lease rod? Explain. 4

3.
 - a) What are the objects of sectional warping? Sketch and describe the working of a modern sectional warping machine. 12
 - b) What is expanding comb? Explain. 6

4.
 - a) How ribbon or pattern formation occurs during winding? Mention the methods to eliminate it. 12
 - b) What is splicer? Explain. 6

5.
 - a) What do you mean by marking and measuring motion in sizing? Explain fully how it works with a neat sketch. 12
 - b) What is drawing in process? Explain. 6

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6. a) A cone made on a modern high speed cone winding machine contains 4lbs. of 20^S cotton yarn? Calculate the length of yarn in yards. 8
- b) The length of warp on a warper's beam is 36,000 yards and the member of ends in the warp is 420. If the net weight of the warp on the beam is 500 lbs., calculate the beam count. 10
7. a) How much time will be required to wind 2388 lbs. of 20^S yarn on 40 drums of a cone winder, if the calculated rate of winding is 1298 yards/minute and the efficiency is 80%. 9
- b) A sized warp 840 yds. long contains 2500 ends and weighs 60lbs. If the count of the unsized yarn is 50^S cotton, what is the percentage of size on the warp. 9
8. Write short notes on any three: 6 each
- a) Sow box
 - b) Photo electric yarn cleaner
 - c) Auto cover
 - d) Mechanism of cylinder drying

