



SF-7903

B. E. - IV (Textile Technology) (Sem. - VIII)

Examination

May/June - 2011

Process Control in Weaving

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. E. - 4 (TEXTILE TECHNOLOGY) (SEM. - 8)	<input type="text"/>
Name of the Subject :	<input type="text"/>
PROCESS CONTROL IN WEAVING	<input type="text"/>
Subject Code No. : <input type="text"/> 7 <input type="text"/> 9 <input type="text"/> 0 <input type="text"/> 3	Section No. (1, 2,...): <input type="text"/> 1&2
	Student's Signature

- (2) Answer two each section must be written in separate answer books.
- (3) Figures to the right indicate maximum marks.
- (4) Tie two sections separately.

SECTION - I

- 1 (a) Fill up in blanks : 5
- (i) By electronic counting of the revolution of the grooved roller for control of yarn length in a cone, the coefficient of variation has been improved to ____%.
- (ii) For high quality warping, static charges must be kept below _____ volts.
- (iii) SBR should be around _____ %.
- (iv) Under foreign matter clearing _____ channel clears lighter faults in a darker yarn.
- (v) Splicing is difficult in rotor yarns and RSS varies between _____ % of parent yarn strength.
- (b) Discuss the features of Uster Quantum Clearer. 10
- (c) Enlist the factors on which winding production depends. 5

- 2 (a) Discuss the wrong work practices which would affect the hard waste level in winding. 5
 (b) Discuss the innovation in the area of warping beam in a warping machine. 10

OR

- 2 (a) While working with high twisted and lively yarns on warping machines formation of snarls can be eliminated or reduced by which methods ? 5
 (b) Discuss in detail recent developments in the Head stock of direct warping machines. 10
- 3 Write short notes on : (any **three**) 15
 (i) Cauliflower
 (ii) Wet splitting
 (iii) Beninger synchro 4 sizing system
 (iv) Autotense FX

SECTION - II

- 4 (a) Mention true or false : 5
 (i) Full voiles are made of highly twisted double yarn.
 (ii) A temperature of 40° is maintained in the weaving shed.
 (iii) A fabrics defect which can be seen from a considerable distance is called as a minor defect.
 (iv) Cut pieces measuring length less than 25 cm are called chindies.
 (v) Hardened fluff woven into the fabric is called gout.
- (b) Which are zones at a sizing machine where tension and stretch control are of importance ? 3
- (c) The pressure applied to the squeeze roller for an individual machine varies with what ? 2
- (d) Discuss in detail the features of state-of the-art sizing machines. 10
- 5 Explain in detail the control of efficiency in the loom shed. 15

OR

- 5 Explain in detail the finished fabric grading of the fabric. 15

6 Write short notes on any three :

15

- (i) Weaving with dyed yarns.
 - (ii) ATIRA CAM ANALYSER.
 - (iii) 4 Point system of fabric inspection.
 - (iv) Irregular reppiness.
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