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SF-6601

B. E. - II (Sem. - IV) (Textile Technology) Examination

May/June – 2011

Yarn Manufacturing - II

(Old Course)

Time : **3** Hours] [Total Marks : **100**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **B. E. - 2 (SEM. - 4) (TEXTILE TECHNOLOGY)**

Name of the Subject :

☛ **YARN MANUFACTURING - 2 (OLD COURSE)**

☛ Subject Code No. : **6 6 0 1** ☛ Section No. (1, 2,.....) : **1&2**

Seat No. :

Student's Signature

(2) Answers to the two sections must be written in separate answer books.

(3) Figures to the **right** indicate full marks.

(4) Tie two sections **separately**.

SECTION - I

1 (a) Answer the following :

(i) The hardness of cots is measured in _____. **1**

(ii) The value of break draft is around_____. **1**

(iii) Draw frame preferentially straightens ____ hooks. **1**

(iv) The main object of Draw frame is Cleaning. (True or False) **1**

(v) Write the equation to calculate production of Draw frame. **2**

(vi) Draw Axial flutes and Knurled flutes. **2**

(vii) Explain the term 'Floating Fibres'. **2**

(b) Explain Ideal Theory of Drafting with suitable diagram. **10**

2 (a) Discuss briefly : **10**

(i) Roller Nip Movement

(ii) Roller Speed variation.

(b) Describe features of Modern Draw frame. **5**

OR

2 (a) Describe briefly different types of Coiling arrangement. **6**

(b) Discuss briefly effect of lap preparation on performance of Comber. **6**

(c) If the can used is of 24 inch diameter and 36 inch height, calculate can capacity in kgs. If value of constant is 0.0022. **3**

3 Write short notes (any **three**) **15**

(i) Modifications suggested by Shirley Institute in Drafting zone.

(ii) Objects of Draw frame.

(iii) Modern Combers

(iv) Super lap former

SECTION - II

4 (a) Answer the following :

(i) Draft at Ribbon lap machine is_____. **1**

(ii) _____ number of passages are used between Card and Comber. **1**

(iii) Only Draw Brush Gauge. **2**

(iv) Modern Combers operate at the speed of _____. **1**

(v) Explain need of Speed frame. **2**

(vi) In bobbin lead machine bobbin speed is less than flyer speed. (True or False). **1**

(b) Describe the Combing process briefly with a neat sketch. **12**

5 (a) Explain American Builder mechanism with neat sketch **10**

(b) Explain role of twist and optimum roving twist in speed frame. **5**

OR

5 (a) Discuss advantages and disadvantages of flyer lead and bobbin lead machines. **8**

(b) With neat sketch explain differential motion. **7**

6 Write short notes (any **three**) **15**

(i) Constructional details of Top rollers on speed frame.

(ii) Rovematic Flyer

(iii) Passage of material through Inter frame

(iv) Limitations of Conventional flyer.
