



RN-8241

**B. E. - II (Sem. IV) (Textile Technology) Examination**  
**May / June - 2010**  
**Yarn Manufacturing - II**  
*(As per GTU Syllabus)*

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. - 2 (Sem. 4) (T.T.)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Yarn Manufacturing - 2"/>	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="1"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/>	

- (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) Do as directed :
- |   |   |
|---|---|
| (i) State the objects of draw frame.  | 3 |
| (ii) Write the expression to calculate can capacity in lbs.   | 1 |
| (iii) What is the speed of modern draw frame ?  | 1 |
| (iv) Draw axial fluting for bottom rollers.   | 1 |
| (v) Break draft is always greater than main draft. (State true or false)  | 1 |
| (vi) If hank of sliver fed on draw frame is 0.16 with doubling of 6 and draft of 8, what will be resultant hank ? | 2 |
| (vii) What is the value of doubling carried out on Ribbon lap machine ?   | 1 |
- (b) Discuss the problem of drafting wave briefly. 5
- (c) Discuss planetary coiling briefly. 5

- 2 (a) Describe ideal theory of drafting with neat diagram. Hence state why it cannot be achieved in practice. 10  
 (b) Discuss the features of modern draw frame. 5

**OR**

- 2 (a) Discuss the construction of modern top rollers briefly. 7  
 (b) Discuss briefly preparation of lap using sliver lap and ribbon lap machine. 8
- 3 Writes short notes : (any **three**) 15
- (1) Processing of manmade fibres at draw frame  
 (2) Super lap former  
 (3) Modern comber  
 (4) Pressure bar drafting system.

### SECTION - II

- 4 (a) Do as directed :  
 (i) State the objects of comber. 2  
 (ii) Draw plumb gauge and brush gauge.  
 (iii) Comber preferentially straightens \_\_\_\_\_ hooks. 1  
 (b) What is need of speed frame ? State the objects of speed frame. 5  
 (c) Explain the combing cycle with neat sketch. 10
- 5 (a) Explain with neat sketches English builder mechanism. 10  
 (b) State the limitations of conventional flyer. 5

**OR**

- 5 (a) Describe developments in speed frame drafting system. 9  
 (b) Draw only diagram of roveomatic flyer. 6
- 6 Write short notes : (any **three**) 15
- (1) Short process spinning system  
 (2) Optimum roving twist  
 (3) Differential motion  
 (4) Difference between different machines of speed frame.