



SE-7501

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

April / May – 2011

Post Spinning Operations for Manmade Fibres

Time :3 Hours]

[Total Marks : 100

Instructions :

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. E. - 4 (SEM. 7) (TEXTILE TECHNOLOGY)	<input type="text"/>
Name of the Subject :	<input type="text"/>
Post Spinning Operations for Manmade Fibres	<input type="text"/>
Subject Code No. : <input type="text"/> 7 <input type="text"/> 5 <input type="text"/> 0 <input type="text"/> 1	Section No. (1, 2,.....) : <input type="text"/> 1&2
	Student's Signature

- (1) Answers to the two sections must be written in separate answer books.
- (2) Tie two sections separately.
- (3) Figures to the right indicate full marks.

SECTION - I

1.(a). Answer the following :

- In air Jet Texturising Air is supplied at 90° to the yarn . True or False [1]
- How can we change the crimp frequency of in Gear crimping? [1]
- _____ process is suitable for texturising of Non thermoplastic yarns. [1]
- Coarser Denier filaments are more suitable for Airjet texturising. True or False [1]
- The spinning speed of POY is around _____ . [1]
- In case of core yarns , the over feed % for core & sheath yarn is same. True or False [1]
- The length of yarn sample for Dupont yarn stability test is _____ . [1]
- State the objects of Texturising. [3]

(b). With a neat sketch , describe False twist Texturising process in detail. [10]

2.(a). With the help of neat sketch, Multiple end Stuffer box process. State the factors affecting yarn quality. [10]

(b) Describe Gear crimping process briefly with a neat sketch. [5]

OR

2.(a). Describe Air jet texturising process with a neat sketch. [10]

(b). Describe Knit – de-knit texturing process briefly. [5]

3. Write Short Notes [**ANY THREE**] [15]

- Solvent Texturing
- Dynafil - M
- Comparison between air texturing & Intermingling
- Edge crimping process

SECTION – II

4.(a). Answer the following :

- i Explain the terms Glass transition temperature & Melting point temperature. [2]
- ii If the resultant denier of 80 is produced with a Draw ratio of 1.5 , Calculate POY denier. [2]
- iii State the advantages of TFO. [3]
- iv As the twist level increases , Snarling tendency _____. [1]
- v If TFO spindle is running at 10,000 rpm and Take up speed is 25 mts/min , Calculate TPM in yarn. [2]

(b). With a neat sketch describe construction and working of a modern Draw warping machine. [10]

5.(a). Highlight the significance of Drawing process and its effect on various yarn properties. [5]

(b) Explain with neat sketches , Homogeneous drawing and Non homogeneous drawing. [10]

OR

5.(a). With a neat sketch, describe the Principle and working of TFO. [10]

(b). Discuss the advantages of TFO. [5]

6. Write Short Notes [**ANY THREE**] [15]

- (i) Advantages of Draw Warping
- (ii) Temporary sett and Permanent sett
- (iii) Draw Twister
- (iv) Intermingling