THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A EXAMINATION-2016
SECTION D PAPER-D.1
Short Staple Yarn Manufacture

Date: 23.12.2016  Marks: 100  Time: 02:00 to 05:00 pm

Instructions:
1. Attempt six questions out of which Q.1 is compulsory
2. Answer each main question on a new page
3. Figures to the right indicate full marks
4. Illustrate your answers with sketches and flow-charts wherever necessary
5. Use of non-programmable electronic calculator permissible
6. Mobile and any other communication devices are not allowed in exam hall
7. Assume suitable data wherever necessary.

Q.1.  a. Define or explain the following terms:  
   i. Staple length.  ii. Cut staple. iii. Man-made fibres.  
   b. What is the necessity of the application of anti-static agents and tinting colours while processing textile fibres?  

Q.2.  Discuss in detail the process of blending at Blow-room and Draw frame. Also give the advantages and disadvantages of the same.  

Q.3.  Explain in brief processing of 85/15 cotton/viscose blend in cotton system. Give technical details viz., Speeds, setting etc.  

Q.4.  What are the modifications that are required to process 100% polyester on cotton system?  

Q.5.  Why Synthetic roller cots require special treatments? Discuss in detail the various methods adopted for treating roller cots.  

Q.6.  Why controlling of temperature and humidity is considered important in processing Man-Made fibre? How it is done in a spinning mill? Give standards of maintaining temperature and humidity at the processing 100% cotton and 100% polyester.  

Q.7.  What are single vs double roving feed at ring frame. What are the advantages and disadvantages of Single vs double roving feed at ring frame?  

Q.8.  Write short notes on the following:  
   i. Roller Lappings  
   ii. Card clothing.  
   iii. Length differentiated blends.  
   iv. Different coiling methods used at Draw frame.  

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