THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A EXAMINATION-2016
SECTION D PAPER-D.2
LONG STAPLE & OTHER YARN MANUFACTURE

Date: 24.12.2016 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 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. Crimp
   ii. Sericin
   iii. Linen
   iv. Clipped wool
   v. Legnin
   iv. Cotswool
   b. What is wool numbering? Explain in brief wool quality number in wool fleece.

Q.2. Discuss in detail the concept worsted, semi worsted and woolen systems.

Q.3. a. What is meant by contamination in wool?
   b. Give detailed classification and method of removing the contaminations.

Q.4. a. What are the objects of gilling?
   b. Where and how gilling is used?
   c. With a neat diagram, explain the similarities and differences between 2 important types of gill boxes.

Q.5. a. Discuss in brief the objects of wool combing.
   b. With a neat diagram, explain the working of wool combing machine.

Q.6. a. Explain in brief the theory of long fibre drafting.
   b. Give operating details of flax drawing and roving production.

Q.7. a. Give classification of jute fibre
   b. With a neat diagram explain detail the conversion process of raw jute fibres to yarn

Q.8. Write short notes on the following:
   i. Condenser card
   ii. Tow to top conversion
   iii. Friction spinning
   iv. Condenser ring spinning

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