THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A EXAMINATION-2016
SECTION B PAPER-B.1
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 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. Giving proper reasons state whether the following statements are True/False (10)
   i. Roller ginning is good for processing long stapled cottons.
   ii. Blow room removes nearly 8-10% of trash from processed cottons.
   iii. Certain spinning wastes can be re-circulated to reduce the cost of mixing.
   iv. Point to point action takes place at cylinder zone in cotton carding.
   v. Sliver condensing element in mainly trumpet.

   b. Explain the following: (10)
   i. Roller gin vs. saw gin
   ii. Openings vs. cleaning machines in blow room

Q.2. a. Which are the maintenance practices essential for cotton carding? (08)
   b. Explain in brief the procedure of stripping, grinding and burnishing. (08)

Q.3. a. What are the objects and principles of working of drawframe? (08)
   b. Discuss in brief the different types of drafting elements as fitted to modern drawframe. (08)

Q.4. a. Why drafting rollers are to be loaded? (08)
   b. Explain in brief different types of loading systems as available in the drawframe. (08)

Q.5. a. What is meant by fractionating efficiency of comber? (08)
   b. Discuss in brief objects of combing and study of combing cycle. (08)

Q.6. a. What is between and within bobbin variation in speed frame? (08)
   b. How threading conditions of roving at the flyer top is important for quality Production? (08)

Q.7. a. How do you control twist variations in single and doubled yarns? (08)
   b. Discuss in brief product of voile and poplin yarns. (08)

Q.8. Write short notes on the following: (16)
   i. Bale pluckers
   ii. Grading of cotton
   iii. Open end spinning systems
   iv. Evaluation of blow room performance

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