THE TEXTILE ASSOCIATION (INDIA)
G.M.T.AEXAMINATION-2018
SECTION-B PAPER-B1
YARN MANUFACTURE

Date: 21.12.2019 Marks: 100
Time: 2.00 pm to 5.00 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 communication devices are not allowed in exam hall
7. Assume suitable data wherever necessary.

Q1. a. Explain the following terms: 10
   i. Fibre length and fibre fineness
   ii. Tex and Denier with formulae
   iii. Tension draft and Total draft with formulae
   iv. Neps and Noil percentage
   v. Rings and Travellers

   b. Answer the following questions
      i. Define Ginning. Explain Knife roller gin with neat labelled diagram.
      ii. Explain the objective of blow room? Explain themodern developments in blowroom

Q2. a. Explain the different types of clothing on licker-in, cylinder and doffer mechanism. 08
   b. Describe with neat sketch of Auto-leveler on card. 08

Q3. a. Explain the modern developments in drawframe, their specification and salient features. 08
   b. Discuss the long and short creel of drawframe with merits and demerits. 08

Q4. a. Explain the objective of comber? Discuss about combing cycle with detachment setting and its importance. 08
   b. Calculate the production of comber in lbs. and kgs. From the following particulars. 08

Q5. a. Explain the different types of change points at speed frame. Explain the objectives of speed frame. 08
   b. Describe with principle of twisting and winding at speed frame with neat sketch. 08

Q6. a. Explain the objective of ring spinning. Explain the modern developments of ring spinning. 08
b. Discuss the faulty packages of ring frame and remedial measures. 08

Q7. a. Describe the mechanism of cone winding mechanism with neat labelled sketch. 08
b. Explain different types of electronic yarn clearers. 08

Q8. a. i. Discuss the technique and detail study of rotor spinning. 16
ii. Comparison of open-end spinning vis ring spinning.

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