YARN MANUFACTURE

Date: 24.12.2015
Marks: 100
Time: 2 pm to 5 pm

Instructions:
1. Attempt six questions out of which Q1 is compulsory
2. Answer each next question on new page
3. Figure to the right indicate full marks
4. Illustrate your answers with sketches and flow chart wherever necessary
5. Use of non programmable electronic pocket calculator permissible
6. Mobile and any other communication devices are not allowed in exam hall.
7. Assume suitable data wherever necessary

Q1 a) Define or explain the following terms
   i. Blending
   ii. Mixing
   iii. Nep
   iv. Stripping
   v. Hank
   vi. Staple
   vii. Contamination
   viii. Grading
   ix. Bale
   x. Gin.

   b) State whether the following statements are TRUE OR FALSE. Give proper reasons
   i. Quality of saw ginned cotton is superior to other ginning technologies
   ii. Short staple fibres are suitable for Open-End rotor spinning
   iii. Good hosiery yarns are made from short staple cottons
   iv. Modern blow room sequence is shorter than conventional sequence
   v. Combing essentially removes short fibres.

Q2 a. Give a Blow room sequence for processing SUVIN cotton.

b. How do you evaluate the performance of a Blow room?

Q3 a. Explain in brief the importance of an Autoleveller in cotton card.

b. Discuss in brief any one system of Autoleveller as fitted to cotton card

Q4 a. What is the necessity of doubling after drawing? What is Break draft and tension draft?

b. Discuss in detail the developments of drafting system on draw frame.

Q5 a. What are the objects of combing?

b. Explain in detail the combing cycle of any comber

Q6 Briefly explain the objects of a Ring frame. Discuss in detail how these objects are achieved on a Ring frame?

Q7 Compare the following in short (minimum 5 – 10 lines)
   i. Open – End Spinning Vs Ring spinning
   ii. Multi fold Vs Multiple fold
   iii. Dry doubling Vs wet doubling
   iv. Direct Vs Indirect yarn numbering system
Q8 Write short notes on the following:
   i. Types of build on ring cop
   ii. Yarn clearers in winding
   iii. Differential building mechanism
   iv. Balanced Doubled yarn

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