Q.1. State true or false, justify your answers by giving reasons. 
   a. Yarn realization is the percentage of yarn recovered from damaged cones. 
   b. HOK indicates the number of Hours Of working of Carding for 100 Kgs of yarn produced. 
   c. The best method to find the actual count variation is to cut 1 inch yarns and weighing them. 
   d. Productivity is the production achieved in 8 hours by a worker. 
   e. Key variables in drawing are the speed and number of slivers fed. 

Q.2. 
   a. What is the importance of Key Variables in achieving Objectives of a Process? 
   b. What are the key variables in a carding machine contributing for hank variations? 

Q.3. 
   a. Explain with reason which is better, increasing yarn realization by 2% or increasing spinning production per spindle by 5%. 
   b. Suppose you need to purchase 1000 Cotton bales for a mixing; in station ‘A’ 1000 bales are available but price is Rs 1000/- more per candy, whereas there are three stations ‘B’, ‘C’ and ‘D’ from different states with the same fibre parameters where availability of cotton is there at 450, 390 and 360 bales respectively. What would you prefer?

Q.4. 
   b. Define 40s Converted H.O.K. 

Q.5. 
   a. What are the factors contributing for tensile strength variation in Ne 40s Combed/Loslier yarns? 
   b. Explain the factors in breaker draw frame influencing count variation of yarns. 

Q.6. 
   a. What do you mean by Machine Audit? How it differs from Quality Audits done for ISO 9000? 
   b. What are the factors contributing for imperfections in ring frame drafting zone? 

Q.7. 
   a. What are the control points and check points in speed frames where a supervisor has to concentrate? 
   b. Explain the method of conducting machine audit in ring frame. 

Q.8. 
   a. How do you assess the performance of Blow room? 
   b. What are the parameters to be checked in ‘Two for one twisting’ for twisting filament yarns? 

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