CULLADAT TECHNOLOCICAL UNIVERSITY

GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017			
Su	ıbject	Code: 172904 Date: 04/05/20)17
Subject Name: Process & Quality Control in Spinning			
Time: 02:30 PM to 05:00 PM Total Marks		70	
Instructions:			
	1. 2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Define : Quality and control. State the objectives of process control in spinning.	07
	(b)	Discuss the methods of controlling mixing quality through fiber characteristics.	07
Q.2	(a) (b)	Explain importance and procedure of Bale management. Give brief note on optimizing cleaning and waste at card.	07 07
	(b)	Explain the procedure for control of comber waste.	07
Q.3	(a) (b)	Explain how Ring data system is useful in modern process control in spinning. Discuss briefly causes of generation of thick and thin places in yarn. Also state the method to measure them.	07 07
0.3	(a)	Explain with the help of chart records to account for varn Realisation	07
Q .0	(b)	Explain with neat sketch ATIRA Nilometer for measuring nip load on draw- frame for machinery audit.	07
Q.4	(a)	Discuss briefly remedial measures to control loss in efficiency due following reasons at ring frame: (i) Waiting for doffing (ii) Waiting for empty bobbins (iii) Back stuff shortage.	09
	(b)	What are idle spindles ? Discuss briefly how the problem of idle spindles can be controlled. OR	05
Q.4	(a) (b)	Discuss Random and Periodic component of yarn irregularity briefly. Explain the term RKm value and how it can be calculated.	10 04
Q.5	(a) (b)	Discuss the various factors that affect yarn unevenness. State the various Indices of productivity used to analyze performance of mill. Also write the equations to calculate them. OR	08 06
Q.5	(a) (b)	Discuss various factors that affect Within bobbin count variation . Write Short notes on (i) Yarn Grading (ii) Classimat System	08 06
