GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – SUMMER • 2014

Subject Code: 172904Date: 05-06-2014Subject Name: Process and Quality Control in SpinningTime: 02.30 am - 05.00 pmTime: 02.30 am - 05.00 pmTotal Marks: 70Instructions:Total Marks: 70			
mst	1. 2. 3.		
Q.1	(a) (b)	Discuss in detail role and scope of process control in spinning. Explain in detail how control of mixing quality is carried out through fibre characteristics.	07 07
Q.2	(a) (b)	Describe all the records required for estimating yarn realization. Discuss in brief how, performance assessment of blow-room is done. OR	07 07
	(b)	Why and how control of waste and cleaning is carried out in carding.	07
Q.3	(a)	Discuss importance of pre-comber draft and method of lap preparation in control of comber waste.	07
	(b)	Explain object and procedure of Bale management in spinning. OR	07
Q.3	(a)	Briefly explain all the changes carried out in modern process control activity in	07
	(b)	spinning. What is machinery audit? With neat sketch explain construction and working of peri-microscope.	07
Q.4	(a)	Explain the terms MPI & LER with respect to productivity of mill.	07
	(b)	Also discuss how they are measured. 'Mills having same PI value need not be having same profitability'. Explain the statement in detail	07
OR			
Q.4	(a)	Classify the end breaks taking place at ring frame and discuss each of them with examples.	07
	(b)	Discuss the factors affecting within bobbin count variation.	07
Q.5	(a)	Discuss various types of yarn faults briefly.	07
	(b)	Explain the quasi periodic component of yarn irregularity. OR	07
Q.5	(a) (b)	Discuss in detail various factors affecting yarn strength. Discuss various factors to be considered for implementation of process control in spinning mill.	07 07
