

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Mechanical Engineering Backlog Examination, June 2023 [Programme: B.Tech] [Semester: VII] [Batch: 2019-2023]				
Course Title: Quality and Reliability Engineering		Max Marks: 100		
Course Code: BTME4006		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Discuss system approach for quality management.	K2	CO1	5
2.	Explain the spiral of progress of quality.	K2	CO2	5
3.	How does quality of design differ from quality of conformance?	K2	CO3	5
SECTION-B (40 Marks)		10 Marks each		
4.	Explain the factors affecting the quality of a product.	K2	CO1	10
5.	Illustrate the Juran's quality trilogy in detail.	K3	CO2	10
6.	Explain quality planning activities.	K3	CO3	10
7.	Explain the process of establishing cost of quality. OR Briefly explain employee motivation and empowerment.	K3	CO4	10
SECTION-C (45 Marks)		15 Marks each		
8.	Discuss the two major categories of quality cost and how they relate to each other.	K3	CO1	15
9.	How does the choice of control limits influence these type I and type II errors?	K4	CO4	15
10	Illustrate some reasons for the failure of total quality management in organizations. OR How is the economic model of quality cost developed? Illustrate the different cost associated with it.	K4	CO5	15