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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER – VIII (New) EXAMINATION – WINTER 2019

BE - SEMESTER- VIII (New) EXAMINATION – WINTER 2019			
Subject Code: 2180207 Date: 21/11/2019 Subject Name: Applied Industrial Engineering In Automobile Times 22 20 DM TO 25 20 DM			
1. Attempt all questions.			
2	2. Ma	ake suitable assumptions wherever necessary. Sures to the right indicate full marks.	
Q.1	(a)	Define Production, Planning and Control.	03
	(b)	Elaborate Sales Forecasting with suitable example.	04
	(c)	Explain significance of Pareto analysis Diagram with a neat sketch.	07
Q.2	(a)	Define Productivity. Enlist factors affecting productivity.	03
	(b)	Describe about Flow process Chart with a neat diagram.	04
	(c)	Elaborate "Therbligs" with its symbol and application. OR	07
	(c)	Describe about Man-machine Chart and Multiple activity chart with its industrial applications.	07
Q.3	(a)	Define Quality in terms of three Quality Gurus.	03
-	(b)	Explain Histogram in terms of Quality solving tools.	04
	(c)	Illustrate "Ishikawa Diagram" in context to automobile industries.	07
		OR	
Q.3	(a)	Explain 5's Techniques with reference to quality.	03
c	(b)	Describe about Quality Circle in terms of Human dimensions of Quality.	04
	(c)	Elaborate Six sigma programs towards zero defects.	07
Q.4	(a)	Define : Reliability and Mean Time To Failure (MTTF)	03
	(b)	Explain Bathtub Curve in terms of Reliability engineering.	04
	(c)	Illustrate Failure Mode & Effect Analysis – FMEA	07
		OR	
Q.4	(a)	Explain Just in Time manufacturing.	03
	(b)	Explain Supply Chain Management and Logistics	04
	(c)	Describe Operating Characteristics - OC curves in terms of acceptance sampling.	07
Q.5	(a)	Explain Economic Order Quantity (EOQ) models.	03
C C	(b)	Explain about Tender Methods of Purchasing system.	04
	(c)	Write short note on "Operation Research"	07
	. /	OR	
Q.5	(a)	Define: (1) PERT. (2) CPM. (3) Linear Programming.	03
-	(b)	Illustrate North west corner method with suitable example.	04
	(c)	Write short note of ISO: 9000 and ISO:14000	07

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