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GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020

Subject Code:2180207	Date:19/01/2021
Subject Nemes Applied Industrial Engineering In	Automobile

Subject Name: Applied Industrial Engineering In Automobile

Time:02:00 PM TO 04:00 PM Total Marks: 56

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- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Define the objectives of Production Planning & Control. What is Production? Write down the significance of assembly line balancing. Define Productivity. How the Productivity of land, man, & material can be increased?	03 04 07
Q.2	(a) (b) (c)	What are the criteria for selecting a job for work-study? Explain the concept of sales forecasting. List the various Therblings with their symbols. Explain application of Micro-Motion Study.	03 04 07
Q.3	(a) (b) (c)	Difference between Quality assurance & Quality Control. Define Continuous improvement strategies Kaizen. Explain short note on i) TQM ii) Brain-Storming	03 04 07
Q.4	(a) (b) (c)	Define 5S technique regarding your workshop. Explain Quality Circle & Quality Audit. What is ISO? Describe content & benefits of ISO- 14000.	03 04 07
Q.5	(a) (b)	Explain the concept of FMEA. i) Define the terms: i) Failure Rate ii) Hazard Rate iii) MTTR iv) MTBF	03 04
	(c)	Describe Just in time concept along with advantages & disadvantages of JIT.	07
Q.6	(a) (b) (c)	Explain EOQ Model. What is meant by Sourcing & Which factors affect it? Define Reliability .Discuss Failure rate analysis.	03 04 07
Q.7	(a) (b) (c)	Explain the concept of POKAYOKE for Mistake – proofing. Difference between CPM & PERT method Describe in brief Kanban & Pull system & rules of it	03 04 07
Q.8	(a) (b) (c)	Define Vogel approximation with suitable examples. Explain the concept of bathtub curve. What is Operation Research? Explain the Origin of Operation Research & application of it.	03 04 07
