GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER- VI • EXAMINATION – SUMMER-2017

Subject Name: Industrial Engineering			Date: 06/05/2017	
			Total Marks: 70	
Q.1	(a) (b)	Differentiate : Process layout v/s Product layout07List the factors which should be considered for the selection of site for the automobile Industry.07		
Q.2	(a) (b)	What is P.P. C? Give the major objectives of the same.04What is line balancing? Discuss in detail assembly line balancing with suitable07example.07		
		OR		
	(b)	The sale of a product during last five yr. is tabulated below:	07	
		Year 2006 2007 2008 2009	2010	
		Sale48610Find (a) Equation of best fit line (b) Forecast the sale in year 2011	14	
Q.3	(a)	manufacturing organization. (b) Discuss the following: (i) Work study and Management (ii) Work study and Worker (ii) Work study and Worker		
	(b)			
Q.3	(a) (b)	OR07Explain principle of motion economy & work place layout.07What is method study? Explain in brief various charts & diagram utilized in method study.07		
Q.4		Define the following term:07(i) Nominal wage(ii) Real wage(iii) Living wage(iv) Minimum wage(v) Fair wage(vi) Incentive(vii) Job Evaluation07Explain Employee Provident Fund Act, 195207		
	(b)	OR		
Q.4	(a) (b)	Discuss the rights and liabilities of Trade Union.0'What do you understand by inspection? What are its objectives?0'		
Q.5	(a)	Define the term: Quality and Quality control. Explain the needs of Quality 0 Control in Industry		
	(b)	Explain the function of TQM 07 07		
Q.5	(a)			
	(b)	Eight samples were taken for Quality Control and each time 4 pin diameters 0 were measured. If mean diameter of pin is 8.5 cm & its standard deviation is 0.03 cm then find limits of control chart. Calculate process capabilities.		
