Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (OLD) - EXAMINATION - SUMMER 2017

	•	Code: 161907 Date: 08/05/2	:017
Tin	•	Name: Industrial Engineering 0:30 AM to 01:00 PM Total Marks ns:	s: 7 0
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is Productivity? Discuss the factors affecting the productivity of the manufacturing organization. What is method study? Explain in brief various charts and diagrams utilized during method study investigations.	07 07
Q.2	(a) (b)	Write various types of plant layout and explain any two with neat sketch. Explain the procedures (steps) of work study in detail. OR	07 07
	(b)	Explain the factors to be considered for selection of site in manufacturing environment.	07
Q.3	(a)	Discuss the method of job sequencing to minimize the machine idle time with suitable example.	07
	(b)	Explain the role of PPC in engineering business. OR	07
Q.3	(a) (b)	What is therbligs? State the importance of micro motion study. How does the multiple activity charts help to reduce the ideal time of men and machine? Explain with suitable example.	07 07
Q.4	(a) (b)	What is entrepreneur and explain his major characteristics. What is Work measurement? List the various techniques of work measurement and also explain how the Standard time is calculated. OR	07 07
Q.4	(a) (b)	Define wages and explain in detail various types of incentives. State various methods of job evaluation. Discuss it in brief.	07 07
Q.5	(a)	Discuss the following sales forecasting methods: (1) Exponential smoothing (2) Method of weighted moving average.	07
	(b)	Explain the following: (i) The workmen's Compensation Act, 1923 (ii) The Factory Act,1948	07
		OR	
Q.5	(a)	Define following terms 1. Quality control 2. Quality assurance 3. Inspection 4. T.Q.M.	07
	(b)	Explain operating characteristics curves for acceptance sampling.	07
