Seat N	0.:	GUJARAT T	ECHNOLOG	ICAL UNIVE			
Subi	ect c	BE- VI ^m SEN ode: 161907	1ESTER-EXAMIN	NATION – MAY- 2	2012 Date: 24/0	5/2012	
		ame: Industrial	Engineering		2 2		
Time	: 10:	:30 am – 01:00 pr	n		Total Ma	rks: 70	
2.	Atte Mak	ONS: mpt all questions. a suitable assumption ares to the right indica		y.			
Q.1	(a)	 Define plant lay out. discuss following types of plant layout (1) Process layout (2) Group technology 					
	(b)	Wrote briefly on (1) (2)	Fixed position layou work flow diagram operation process cl machine data cards		2	07	
Q.2	(a)	Write the functions	included under the a	ctivity of production	on planning.	04	
		What is economic order quantity?				03	
	(c)	Discuss the following methods of sales forecasting (1) exponential smoothing (2) methods of weighted moving average OR					
	(c)	What is line of ba taking suitable exercise	lancing ? discuss in	n detail assembly l	ine balancing	07	
Q.3	(a)	What are factories a	ct? What are major	provisions for safet	y and health?	07	
	(b)	State various sources of industrial finance.				04	
	(c)	State various government incentives to entrepreneurs. OR				03	
Q.3	(a)	State various metho	•			07	
	(b)	Define wages and explain in detail various types of incentives.				07	
Q.4	(a) State the relationship between productivity and work study various tools for increasing productivity.				tudy. Explain	07	
	(b)	State the relationship between cumulative timing and fly back timing. How standard time is calculated ?					
Q.4	(a)	OR What is method study? Explain in brief various charts and diagrammes					
	(b)	utilized in method study. What is therblig? State the importance of micro motion study.				07	
Q.5	(a)	State the advantages of S. Q. C. what attribute and variable quality characteristics are.				07	
	(b)	Find UCL and LCL for following data					
		Sample no.		R	1		
		Sample no.	 V	K			

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1

1	26.0	35
2	34.0	17
3	28.5	18
4	32.75	22
5	29.25	31
6	29.25	15
7	26.0	19
8	24.75	29
9	27.25	18
10	30.25	9

Take A2=0.73, D3=0, D4=2.28, d2=2.059

OR

(a) Explain following terms Q.5

(1) quality assurance

(2) quality and inspection

(3) T. Q. M.

ucted? (b) Explain in detail how P chart and C chart are constructed?

07

07

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