GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI (NEW).EXAMINATION – WINTER 2016

Subject Code: 2161907 Subject Name: Industrial Engineering							Date: 26/10/2016			
Time: 10:30 AM to 01:00 PMTotal MarlInstructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.								arks: 70		
(a) (b)	Compare urban area and rural area for site selection of plant. What is pre-determined motion and time systems (PMTS)? What is the procedure for PMTS? How it is used for carrying out time study?								07 07	
(a) (b)	Define terms in terms of sampling plans: (i) AQL (ii) RQL (iii) IQL (iv) AOQ 07 What do you understand by normal distribution curve? What are its 07 characteristics?									
(b)	OR State various government incentives to entrepreneurs. 07									
(a)	flow pattern?									
(b)	Explain different types of wages briefly.									
(a) (b)	Explain aims and objectives of industrial legislation?								07 07	
(a) (b)	Explain step by step procedure of method study. 0' What is work sampling? How it is performed? 0' OR									
(a) (b)	What are the various tools and techniques to improve productivity?07Write a short note on : Ergonomics07									
(a)	What do you mean by process planning? Explain step by step procedure of 07									
(b)	There are seven jobs which are to be processed first on M_1 and then on M_2 . 07									
	Job	A	B	C	D	E	F	G		
	Machine M ₁	06	24	30	12	20	22	18		
	Machine M ₂	16	20	20	13	24	02	06		
	Subje Subje Fime: nstruc (1, 2, 3, (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	 Subject Name: Sime: 10:30 AN Instructions: Attempt a Make suita Figures to (a) Compare u (b) What is procedure f (a) Define term (b) What do characterist (b) State variou (a) What do you flow patter (b) Explain dif (a) Explain air (b) An <i>np</i> char conforming (a) Explain stee (b) What are the box what do you process plate (a) What do you process plate (b) There are a Processing Job Machine M1 	Subject Name: IndustriSubject Name: 10:30 AM to 01:0Instructions:1. Attempt all question2. Make suitable assum3. 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Expla process planning.(b) There are seven jobs which are to be processed Processing time in hours are as under :IobABCMachine n_06 243012Machine n_16 20202113	Subject Name: Industrial Engineering Time: 10:30 AM to 01:00 PM T nstructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Compare urban area and rural area for site selection of plant. (b) What is pre-determined motion and time systems (PM procedure for PMTS? How it is used for carrying out time st (a) Define terms in terms of sampling plans: (i) AQL (ii) RQL ((b) What do you understand by normal distribution cur characteristics? OR (b) State various government incentives to entrepreneurs. (a) What do you mean by flow pattern? What are the different flow pattern? (b) Explain aims and objectives of industrial legislation? (b) An <i>np</i> chart is to be established on a painting process to control. 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Explain step by step process planning.(b) There are seven jobs which are to be processed first on M1 and th Processing time in hours are as under :Isola ABCDEFMachine06243030122022Machine06243030<	Aubject Name: Industrial Engineering Time: 10:30 AM to 01:00 PMTotal Marks: 70 nstructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.(a) Compare urban area and rural area for site selection of plant.(b) What is pre-determined motion and time systems (PMTS)? What is the procedure for PMTS? How it is used for carrying out time study?(a) Define terms in terms of sampling plans: (i) AQL (ii) RQL (iii) IQL (iv) AOQ (b) What do you understand by normal distribution curve? What are its characteristics?OR(b) State various government incentives to entrepreneurs.(a) What do you mean by flow pattern? What are the different factors affecting the flow pattern?(b) Explain different types of wages briefly. 	

Find optimal sequence, total elapsed time and also Total Idle time of M₂.

OR

Q.5 (a) What do you mean by line balancing? What is the procedure for line balancing?
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 (b) Write a short note on : SEZ
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