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Roll No. Total No. of Pages : 02 Total No. of Questions : 08 M.Tech (ME) (2017 Batch) (Sem1) OPERATIONS MANAGEMENT Subject Code : MTME-104 M.Code : 74718													
Т	ime :	3 Hrs	3 .							M	lax. M	arks :	100
INST 1. 2.		pt an	y FIV		tions			quest	ions.				
1.	Expl	ain the	vario	us type	s of ma	nufact	uring sy	ystems	with the	eir mei	rits and	limitatio	ns. 20
2.	a) E	xplain	the f	actors a	ffecting	g the pr	rocess o	lesign.					10
	b) I	iscuss	s the d	lesign a	nd tech	nologi	cal cons	sideratio	ons in p	rocess	design		10
3.	a) E	xplain	the r	ole of d	emand	forecas	sting in	operati	ions dec	isions	of an C)rganisat	tion.10
				egree o		ation a	nd expl	lain the	method	is to c	heck the	e signific	cance of 10
4.	next	two y	ears b		le aver	age and	and the second	~					for the D, bias, 20
	Yea	ır	1	2	3	4	5	6	7	8	9	10	
	Uni	ts	110	131	124	143	161	174	184	198	170	182	
5.				layout ind sub-			dvantag	ges and	limita	tions o	of indus	stries lo	cated in

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b) Explain the Manufacturing Resource Planning with its inputs, outputs and

b) Explain the factors affecting the Multi-stage manufacturing systems.

a) Discuss the principles of good plant layout.

advantages.



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Find the sequence of following 7 jobs that will minimize the total elapsed time for the completion of all the jobs. Also find processing and idle time for all the three machines. Processing times (in min.) are given the following table:

Jobs	I	II	III	IV	v	VI	VII
Machine A	3	8	7	4	9	8	7
Machine B	4	3	2	5	1	4	3
Machine C	6	7	5	11	5	6	12

Write the short notes on the following:

a) Box Jenkins and Delphi methods

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c) Semi and Moving average methods

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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