Reg	jistra	tion No. :											
Tota	al nur	nber of prin	ited pag	es – 3	3							М	MBA GT 204
		Second	Seme	ster	Reg	ular	Exa	min	atio	n – :	2015		
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				Т	ime :	3 Hc	ours		[7		12	2	
	Ans	wer Questic	on No. <b>1</b>	which	h is co	отри	Isory	and	any f	ive fr	om th	e res	t.
		The f	igures ir	the ri	ght-h	and n	nargii	n indi	cate	mark	S.	/	
1.	Answer the following questions :								2×10				
	(a)	What is the	• •			en ma	anufa	cturi	ng ar	nd se	rvice	opera	ation?
	(b)	Explain the											
	(c)	What are th	ne differe	ent stra	ategie	s of a	aggre	gate	planr	ning?			
	(d)	Define critic	cal path										
	(e)	What are th	ne inputs	of Mi	RP?								
	(f)	What are th	ne differe	ent cos	sts inv	olve	d in qu	uality	cont	rol?			
	(g)	What is sta	ındard ti	me?									
	(h)	What are th	ne differ	ent cyc	cles o	f sup	ply ch	ain n	nana	geme	nt?		
	(i)	Differentiat	e betwe	en pro	duce	r risk	and c	onsu	mer	risk.			
	(j)	What is ISO	O000 C	?									
2.	(a) <sup>.</sup>	Explain the	importa	nce of	f Proc	luctio	n, Pla	ınnin	gano	Cont	trol (P	PC).	5
	(b)	Discuss the	e steps ir	volve	d in ne	ew pr	oduct	deve	lopm	ent.			5
3.	(a)	Explain the	meanin	g and	signif	icano	e of p	lant l	ocati	on. H	ow wil	l you	decide
		the location	n of a mi	ni stee	el plar	nt in C	)rissa	?					5
	(b)	What are th	ne differe	ent typ	es of	plant	layou	t?D	iffere	ntiate	betwe	een p	
•		and produc	t layout.										5

4. (a) Differentiate between P and Q system of inventory.

(b) SRISH Tubes is the manufacturer of picture tubes for TV. The following data are details of their operations during 2013-14. Ordering cost-100/- per order, Inventory carrying cost 20% p.a., normal usage-100 tubes per week, Minimum usage-50 tubes, Maximum usage-200 tubes per week, Lead time to supply-6-8 weeks

Calculate:

- EOQ if the supplier is willing to supply 1500 units at a discount of 5% of worth accepting.
- (ii) Reorder level
- (iii) Maximum level of stock.
- (iv) Minimum level of stock.
- (a) Explain the steps involved in stop watch time study procedure.
   (b) Consider the following 3 machines and 7 jobs flow shop problem. It is
  - processed on the three machines in the sequence of M1, M2, and M3.

    Calculate flow time and ideal time

Jobs	M1	M3	M2		
Α	1	3	7		
В	3	10	3		
С	7	9	8		
D	9	11	2		
E	4	9	8		
F	5	14	6		
G	2	12	1		

 A construction company has listed down various activities that are involved in constructing a building. Draw a project network for the above project. Find the critical path and expected project completion time.

Activity	Predecessors	а	m	b
Α	_	4	4	10
В	_	1	2	9
С	_	2	5	14
D	Α	1	4	7
E	Α	1	2	3
F	Α	1	5	9
G	B,C	1	2	9
Н	С	4	4	4
1	D	2	2	8
J	E,G	6	.7	8

- (a) Calculate the expected time and variance for each activity.
- (b) Draw the critical path diagram. Show the early start, early finish time and late start, late finish times.
- (c) Show the critical path.
- 7. (a) What is TQM? Discuss different principles associated with it. 3
  - (b) The following table gives the average daily production figures for 20 months each of 25 working days. Given that the population standard deviation of daily production is 35 units. Draw a control chart for the mean.
    7
    210
    205
    210
    212
    211
    209
    219
    204
    212
    209

209 219 211 210 212 210 205 211 203 211 211 210 204 214 208 215 212

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8. Write short notes on any four of the following:

 $2.5 \times 4$ 

- (a) Hybrid layout
- (b) Acceptance Sampling
- (c) Service Package
- (d) Push and Pull view of Supply chain
- (e) Statistical Quality Control (SQC).