Enrollment No:	Exam Seat No:
_	C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Production and Operations Management

Subject Code: 5MS02POM1 Branch: MBA

Semester: 2 Date: 04/05/2018 Time: 10:30 To 01:30 **Marks**: 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

CECTION

					SECTIO)N – I	
Q-1	1 Attempt the Following questions			(07)			
		a.	What is Opera	ations M	anagement?		(01)
		b.	Define Produ				(01)
		c.	Define Produ	ct Layou	it		(01)
		d.	What do you	mean by	P – Model of Inve	entory Management.	(01)
		e.	Define Safety	Stock			(01)
		f.	Define Depen				(01)
		g.	Define Orderi	ng Cost			(01)
Q-2			Attempt all o	uestion	S		(14)
	a. Explain important factors to be considered in deciding the location of a				of a (7)		
	1		· · · · · · · · · · · · · · · · · · ·	nanufacturing firm.			
	b. List different facility layouts and explain any two of them.				(7)		
					OR	1	
Q-2			Attempt all o	_			(14)
	a.		-	_	method of deciding	•	(7)
	b.		-		ction and Operation	ons Management.	(7)
Q-3					(14)		
	a.		The following tasks must be performed on an assembly line in sequence and (14)				
	times specified to produce a product. The assembly line should produce 60 units				luce 60 units		
			in 1 hour.	.1	1 1'		
				-	edence diagram.		
	b) What is cycle time?						
	c) What is theoretical minimum number of workstationsd) Balance the assembly line.						
			d) Balan	Task		Immediate Predecessor	
					Time (Seconds)	Immediate Fredecessor	
				Α	40		



В	30	A
С	50	A
D	40	В
Е	6	В
F	25	С
G	15	С
Н	20	D,E
I	18	F,G

OR

Q-3	a.		FMS ltd. Procures component A for its final product at the rate of Rs. 50 per piece. It requires 18000 pieces per year. The following information is available about this product:	(10)
			Annual Holding Cost: 12.5% of cost of purchased item. Ordering cost: Rs.250 / order Lead Time: 6 days	
			(a) Find EOQ and Reorder Point (b) if supplier offers quantity discount of 5% for order quantity of 3000 pieces per order. Will you accept the offer? Why / why not?	
	b.		Explain VED and FSN classification schemes of inventory items.	(4)
			SECTION – II	
Q-4			Attempt the Following questions	(07)
		a.b.c.d.e.f.g.	What do you mean by Project Management? Define Critical Activity. What do you mean by Lean Manufacturing? Give full form of SQC. Define TQM. Write your understanding of Project Crashing. Define Break – Even – Point.	(1) (1) (1) (1) (1) (1)
Q-5			Attempt all questions	(14)
	a. b.		Write a note on Johnson's rule. Describe different dimensions of product quality.	(7) (7)
			OR	
Q-5	a. b.		Write a brief note on Industrial Safety. Explain the different phases of project management.	(7) (7)
Q-6	a.		Attempt all questions What is MRP? What are the inputs and outputs required by the MRP processing	(14) (7)
	b.		logic? What do you mean by JIT? Explain the basic elements of JIT.	(7)



Q-6 Attempt all Questions

a. A project has been defined to contain the following activities, along with their time estimates for completion in weeks:

Work Element	Time Duration	Predecessor(s)
A	21	-
В	5	A
С	7	A
D	2	В
Е	5	C,D
F	8	С
G	2	E,F

- a) Draw the Network Diagram.
- b) Find out the activity schedule including slack period.
- c) Identify the critical path.

