

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Production and Operations Management

Subject Code : 5MS02POM1

Branch: MBA

Semester : 2

Date : 31/10/2018

Time : 2:30 To 05:30

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.
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SECTION – I

- Q-1 Attempt the Following questions (07)**
- a. Define Productivity. (01)
 - b. Define BEP. (01)
 - c. Give your understanding of Layout. (01)
 - d. Define Independent Demand. (01)
 - e. Define Inventory. (01)
 - f. Define Carrying Cost. (01)
 - g. What is Fixed Layout? (01)
- Q-2 Attempt all questions (14)**
- a. You are looking for suitable location to establish retail showroom of branded readymade garments. Discuss various factors you will consider for deciding appropriate location. (7)
 - b. Write a note on Production Management. (7)
- OR**
- Q-2 Attempt all questions (14)**
- a. Explain EOQ Model of Inventory System (7)
 - b. Write a note on Product Layout. (7)
- Q-3 (14)**
- The following tasks must be performed on an assembly line in sequence and times specified

Task	Time (Seconds)	Immediate Predecessor
A	40	None
B	30	A
C	50	A
D	40	B



E	6	B
F	25	C
G	15	C
H	20	D, E
I	18	F, G

- Draw the precedence diagram.
- What is theoretical minimum number of workstations required to meet forecasted demand of 2400 units per week? The plant will operate 40 hours per week.
- What is cycle time?
- Balance the line using longest-task-time as primary criterion.

OR

- Q-3** **a.** ABC company stores Product A. Its annual demand is 5000 units; the ordering cost is Rs. 15 and its holding cost is Rs. 4 / Unit / year. Find out EOQ and Total Annual Inventory cost. **(07)**
- b.** Explain various reasons for holding the inventory. **(07)**

SECTION – II

- Q-4** **Attempt the Following questions** **(07)**

- Define Project Management. **(01)**
- Give full form of MRP. **(01)**
- What do you mean by Critical Path? **(01)**
- Define Job Sequencing. **(01)**
- Give full form of PERT. **(01)**
- Define JIT. **(01)**
- What is PDCA cycle? **(01)**

- Q-5** **Write notes on:** **(14)**

- Johnson's rule. **(7)**
- MRP. **(7)**

OR

- Q-5** **a.** Write a note on statistical quality control. **(7)**
- b.** Describe any six dimensions of product quality. **(7)**

- Q-6** **Attempt all questions** **(14)**

- Differentiate between PERT and CPM. **(7)**
- Write your understanding of Project / Activity Crashing with examples. **(7)**

OR

- Q-6** **(14)**

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	2	-
B	4	A
C	5	A
D	2	B
E	1	B
F	8	B, C
G	3	D, E
H	5	F
I	4	F
J	7	G, H, I

- a) Draw the Critical Path diagram.
- b) Show the activity schedule.
- c) Show the critical path.

