

P. P. SAVANI UNIVERSITY

Second semester of MBA Examination

May-2022

SLMB7130 - (Production and Operations Management)

26.05.2022, Thursday

Time: 09:00 a.m. to 11:30 a.m.

Maximum Marks: 60

Instructions:

1. Make suitable assumptions and draw neat figures wherever required.

SECTION - I

- Q - 1 Explain transformation process for chocolate industry. [05]
Q - 2 Explain different competitive dimensions of operations management. [10]

OR

- Q - 2 Find ES, EF, LS, LF, Slack, critical path for following data. Can we delay activity A, C, E and I? Why and why not? Draw network diagram. [10]

Activity	Predecessor	Duration (days)
A	-	5
B	A	3
C	B	4
D	B	8
E	D	9
F	B	1
G	F	2
H	C,E,G	5
I	H	6
J	I	7

- Q - 3 Explain various factors affecting location planning. [10]

OR

- Q - 3 Explain the concept of inventory management and different classification of inventory management in detail. [10]
Q - 4 Explain current issues in production and operations management. [05]

SECTION - II

- Q - 1 Explain different types of levels in the organizations. [05]
Q - 2 Nelson's hardware store a 19.2 volt cordless drill that is popular seller. Annual demand is 5000 units, the ordering cost is \$15 and the inventory holding cost is \$4 unit/year. What is [10]

economic order quantity? What is the total annual cost for this inventory item? Explain concept of EOQ in detail.

OR

Q - 2 Explain different types of processes in detail. [10]

Q - 3 Find critical path and variance for each activity. Calculate the Z value of completing the project in 26 days. Explain any two difference between CPM and PERT. [10]

Activity	To	Tp	Tm
1-2	6	12	9
1-3	3	11	4
2-4	2	14	5
3-4	4	8	6
3-5	1	5	1.5
2-6	5	7	6
4-6	7	15	8
5-6	1	3	2

OR

Q - 3 Explain various quality principles as describe by different quality gurus. [10]

Q - 4 Define project management and discuss various characteristics. [05]