6. In Aggregate Production Plan we actually work with chase stragegy or level strategy. Discuss with diagram the chase strategy and level strategy. 14

7. Discuss in brief the Toyota production system. 14

Or

8. Write short notes on : 7x2=14

(i) Project Management

(ii) Just-in time manufacturing.

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PG Even Semester Examination, May 2025

BUSINESS ADMINISTRATION

(2nd Semester)

Course No.: DSC-555/CP-205

(Production & Operations Management)

Full Marks: 70

Pass Marks: 28

Time: 3 hours

The figures in the right margin indicate full marks for the question.

1. Subway, with more than 25,000 outlets in the US is planning for a new restaurant in Buffalo, New York. Three locations are being considered. The following table gives the factors for each site.

Factor	Weight	Maitland	Baptist Church	North Side Mall
Space	0.30	60	70	80
Costs	0.25	40	80	30
Traffic Density	0.20	50	80	60
Neighbourhood income	0.15	50	70	40
Zoinglaws	0.10	80	20	90

(a) At which site should subway open the new restaurant?

(b) If the weight for space and Traffic density are reversed, how would this affect the decism? 7+7=14

2. What do you understand by theory of constraints (TOC)? Following diagram gives the overview of three machines connected in series, comment on the system's capacity. How you would like to increase the capacity of the system?

30 Units/hr

M_1	→	M_2	→	M_3

50 units/hr 50 units/hr

(Here M_1 having capacity of 50 units/hr, M_2 30 units/hr, M_3 50 units/hr). 7+7=14

Or

3. Different types of layouts like product layout, process layour, celluler layout, project etc are used in the producting process depending upon the types of products. Discuss in brief the types of layout with examples. 14

4. Mac Ltd. is a supplier of speedometers to Speed Auto Ltd.. It supplies 20,000 speedometers to speed auto annually. At speed auto the OC per order is Rs. 5 and the CC is 2.5% of the average inventing value. The price of a single unit is Rs. 200. The company presently has a policy of placing 10 orders every year. Advise the management of Speed Auto as to whether it should continue with its present policy or switch over to the EOQ model. 14

5. As an operations manager, how do you define process control and product control? Following are the data of an experiment : Construct the Mean Chart and Comment on the system:

Sample	Weight of each can (4 Caus in each sample n=4)			
1	15	12	13	20
2	10	8	8	14
3	8	15	17	10
4	12	17	11	12
5	18	13	15	4
6	20	16	14	20
7	15	19	23	17
8	13	23	14	16
9	19	8	18	5
10	6	10	24	20
11	5	12	20	15
12	3	15	18	18
13	6	18	12	10
14	12	9	15	18
15	15	15	6	16
16	18	17	8	15
17	13	16	5	4
18	10	20	8	10
19	5	15	10	12
20	6	14	12	14

Further the given value of A_2 for n=4 is 0.729. 14

Or