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**MBAS 457**

**II Semester M.B.A. Degree Examination, October/November 2022**  
**(Regular and Repeater)**  
**BUSINESS ADMINISTRATION**  
**Supply Chain Management**

Time : 3 Hours

Max. Marks : 70

**SECTION – A**  
**(Compulsory)**

Answer to the following question should **not** exceeding **6** pages.

**(1×15=15)**

1. In what way do supply chain flows affect the success or failure of a firm like Amazon ? List two supply chain decisions that have a significant impact on supply chain profitability.

**SECTION – B**

Answer **any five** questions. **Each** Question carries **8** marks. Answer to the question should **not** exceed **5** pages.

**(5×8=40)**

2. Explain in brief Supply Chain decision-making framework.
3. Comment on 'Green Supply Chain Management'.
4. What do you mean by Benchmarking ? Explain its process.
5. Explain the role of E-Commerce in achieving Supply Chain Strategy.
6. Are manufacturers' better candidates for IT enablement than service organizations ? Why or Why not ?
7. What is the bullwhip effect and how does it relate to lack of coordination in a supply chain ?
8. Briefly explain Global Supply Chain Strategy.

P.T.O.



SECTION – C  
(Compulsory)

Answer to the following question should **not** exceed 6 Pages.

(1×15=15)

9. **Case Study :**

It is late June, and Sandra, head of operations at Mintendo, and Bill, head of sales of We “R” Toys, are to get together to discuss production and market plans for the next six months. Mintendo is the manufacturer of the popular Game Girl hand-held electronic that is sold exclusively through We “R” Toys retail. The second half of the year is critical to Game Girl’s success, because a majority of its sales occur during the holiday shopping period.

Sandra is worried about the impact that the upcoming holiday surge in demand will have on her production line. Costs to subcontract assembly of the Game Girls are expected to increase, and she has been trying to keep costs down given that her bonus depends on the level of production costs.

Bill is worried about competing toy stores gaining share during the Christmas buying season. He has seen many companies lose their share by failing to keep prices in line with the performance of their products. He would like to maximize the Game Girl market share.

Both Sandra and Bill’s teams produce a joint forecast of demand over the next six months, as shown in Table 9.1. We “R” Toys sells Game Girls for \$50 a piece. At the end of June, the company has an inventory of 50,000 Game Girls.

Capacity of the production facility is set purely by the number of workers assembling the Game Girls. At the end of June, the company has a workforce of 300 employees, each of whom works eight hours of non-overtime at \$15/hour for 20 days each month. Work rules require that no employee work more than 40 hours of overtime per month. The various costs are shown in Table 9.2. Sandra, concerned about controlling costs during the periods of surging demand over the holidays, proposes to Bill that the price be lowered by \$5 for the month of September. This would likely increase September’s demand by 50 percent due to new customers being attracted to Game Girl. Additionally, 30 percent of each of the following two months of demand would occur in September as forward buys. She believes strongly that this levelling of demand will help the Company. Bill counters with the idea of offering the same promotion in November, during the heart of the buying season. In this case, the promotion increases November’s demand by 50 percent due to new customers being attracted to Game Girl.



Additionally, 30 percent of December's demand would occur in November as forward buying. Bill wants to increase revenue and sees no better way to do this than to offer a promotion during the peak season.

Month	Demand Forecast
July	100,000
August	110,000
September	130,000
October	180,000
November	250,000
December	300,000

Item	Cost
Material Cost	\$12/unit
Inventory holding cost	\$4/unit/month
Marginal cost of a stock out	\$1 0/unit/month
Hiring the training costs	\$3,000/worker
Layoff costs	\$5 ,000/worker
Labour Hours required	0.25/unit
Regular time cost	\$15/hour
Overtime cost	\$22.50/hour
Cost of subcontracting	\$18/unit

**Questions :**

- a) Which option delivers the maximum profit for the supply chain : Sandra's plan, Bill's plan, or no promotion plan at all ?
- b) How does the answer change if a discount of \$10 must be given to reach the same level of impact that the \$5 discount received ?
- c) Suppose Sandra's fears about increasing outsourcing costs come to fruition and the cost rises to \$22/unit for subcontracting. Does this change the decision when the discount is \$5 ?