

2022
M.Com. (E. & F.B.) Third Semester
FB-305: Computers in Family Business Management

Time allowed: 3 Hours

Max. Marks: 80

NOTE: Attempt five questions in all, selecting atleast two questions from each Section.

X-X-X

Section-A

- 1) What are the basic components of the CPU of a computer system? Describe the roles of each of the components in the functioning of a computer system. How computers are used in Business Management? (16)
- 2) What is a spreadsheet package? Give the uses of the spreadsheet package in business. Explain relative and absolute cell addresses in EXCEL. What are the various types of charts that can be generated in MS-EXCEL? Briefly explain the procedure to create a chart in MS-EXCEL. (16)
- 3) Explain the important features of Computer Based Financial System by giving the key inputs to the systems, the outputs generated by the system and a chart giving the linkage between the inputs and outputs. (16)
- 4) What is Simon's Model of decision-making? Elaborate the use of Computer Based Information Systems for decision making in management hierarchy. (16)
- 5) Explain the importance of Computer Based Inventory System and the role of its various subsystems. What are the various decisions that can be made with the help of each of these subsystems? (16)

Section-B

- 6) Define Management Information System (MIS) and discuss various characteristics expected of a good MIS support for decision making. (16)
- 7) Apply the Simplex method to solve the following Linear Programming Problem:

$$\text{Maximize } z = 3x_1 + 4x_2$$

Subject to the constraints:

$$5x_1 + 4x_2 \leq 200$$

$$3x_1 + 5x_2 \leq 150$$

$$5x_1 + 4x_2 \geq 100$$

$$5x_1 + 4x_2 \geq 80$$

$$x_1, x_2 \geq 0$$

(16)

- 8) Determine an initial and final basic feasible solution for the following transportation problem in order to minimize the total transportation cost:

Factories	Warehouse				Capacity
	W1	W2	W3	W4	
F1	30	25	40	20	100
F2	29	26	35	40	250
F3	31	33	37	30	150
Requirements	90	160	200	50	500

(16)

- 9) Briefly explain the project management process and principles. Elaborate the importance of PERT and CPM computations for project management, by taking suitable examples. (16)
- 10) Write short notes on:
 - a) Assignment problem and its solution
 - b) System Design(8, 8)

X-X-X