

M.Com. (M.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) Enlist various components of a computer. Describe the function of all of them. Explain the role of computers for the management of small and medium-sized enterprises (SMEs). (16)
- 2) What are the different ways of indicating a range in spreadsheet software (MS-EXCEL)? Differentiate among absolute cell addressing, mixed cell addressing and relative cell addressing by taking a suitable example. How does this software help the managers in making sound decisions? (16)
- 3)
  - a) What is decision making process in management? Explain the steps involved in decision making Process.
  - b) What are the main characteristics of structured, semi-structured, and unstructured decisions? Explain with examples. (8, 8)
- 4) Discuss the computer based human resource management system for a manufacturing organization indicating the different types of management subsystems. What are the different types of reports the system would generate? (16)
- 5) What is HRMS (Human Resource Management System) and what is its relationship to HR planning? Explain the elements and significance of a good Human Resource Management System. Why is effective selection procedure vital for the success of any organization? (16)

**Section-B**

- 6) Define Information Systems (IS). List five aspects of information for strategic management that an organization's management might consider. What is the role of information systems in the effective functioning of business organization? (16)
- 7) Write short notes on:
  - a) System analysis and design
  - b) Elements of computer programming languages (8, 8)
- 8)
  - a) What is linear programming problem formulation and what are its basic requirements?
  - b) A firm manufactures 3 products A, B and C. The profits are Rs. 3, Rs. 2 and Rs. 4 respectively. The firm has two machines and the below is the required processing time in minutes for each machine on each product. Machine G and H have 2000 and 2500 machine-minutes respectively. The firm must manufacture 100 A's, 200 B's and 50 C's but not more than 150 A's. Formulate a LPP to maximize the profit and solve the resultant LPP by Graphical method. (8, 8)
- 9) Solve the following Linear Programming problem by using Simplex method:

Maximize  $z = x_1 + 2x_2$  subject to the constraints:

$$x_1 + x_2 \leq 3$$

$$x_1 + 2x_2 \leq 5$$

$$3x_1 + x_2 \leq 6$$

$$x_1, x_2 \geq 0$$

(16)

- 10) Explain the following with examples:

- a) PERT/CPM for project management
- b) Transportation problem and its solution

(8, 8)