



Daffodil International University
Department of Computing and Information System

Class Test 2, Section: 18A, Set: A

Course code: BI334, Course title: Data Analysis and Business Model

Time: 30 minutes

Full marks: 15

- ✓ 1 a) A model is primarily used to: 1
 - (i) Increase system complexity (ii) Simplify and analyze real-world systems
 - (iii) Replace decision makers (iii) Eliminate uncertainty completely
 - b) Which of the following is an example of a Mathematical Model? 1
 - (i) Globe (ii) Bridge prototype (iii) Revenue = Price × Quantity (iv) Flight simulator
 - c) In the decision-making process, which step comes immediately after identifying alternatives? 1
 - (i) Select best alternative (ii) Evaluate results (iii) Gather information (iv) Implement decision
 - d) True or False: Physical models are software-based representations of systems. 1
 - e) True or False: Under certainty, both outcomes and probabilities are known. 1
 - ✓ 2 What is a model? Give one real-life example. 2
 - ✓ 3 Name any three benefits of using models in decision making. 3
 - ✓ 4 Briefly explain three major types of models. 3
 5. Consider a restaurant where the number of customers and product prices are inputs. Identify, 2
 - (a) One possible process variable
 - (b) One possible output variable