

**Department of Business Administration**  
**Faculty of Business & Entrepreneurship**  
**Daffodil International University**  
**Program: BBA**

Semester: Summer, 2025  
Time: 90 minutes  
Course Code: MIS-409  
Section: 62 A

Exam: Mid Term  
Full Marks: 20  
Title: System Analysis & Design  
Course Teacher: MR

**Instructions:**

1. Answer all the questions.
2. Any kind of unfair means is strictly prohibited.
3. Read the question attentively, then answer to the point, relevant examples will carry greater marks.

**Question no.1: [CLO1, Level 2]**

**[Marks : 5]**

Organizational system refers to the formal structure, processes, policies, and procedures governing an organization's operations. It is typically documented and can be designed, modified, and adapted to achieve specific objectives. Now, **explain** the information system components and **illustrate** the impact of information technology on system design.

**Question no.2: [CLO2, Level 3]**

**[Marks : 10]**

From the following table, **identify** the best critical path in term of cost and number of time required.

| Task | Precedence | Time   | Cost | Task | Precedence | Time   | Cost  |
|------|------------|--------|------|------|------------|--------|-------|
| A    | None       | 2 DAYS | 2500 | I    | D, E       | 4 DAYS | 5000  |
| B    | None       | 3 DAYS | 3500 | J    | F, G       | 6 DAYS | 4000  |
| C    | None       | 2DAYS  | 1500 | K    | I, H       | 2 DAYS | 12000 |
| D    | A          | 4 DAYS | 6700 | L    | I, J, H    | 3 DAYS | 10000 |
| E    | A          | 6 DAYS | 8900 | M    | K, L       | 2DAYS  | 22000 |
| F    | B          | 2 DAYS | 7600 | N    | H, M,      | 4 DAYS | 5000  |
| G    | C          | 3 DAYS | 8000 | O    | M, L       | 6 DAYS | 6000  |
| H    | E,F        | 2DAYS  | 7000 | P    | N, O       | 1 DAYS | 2000  |

**Question no.3: [CLO3, Level 4]**

**[Marks : 5]**

When you develop systems, you need to use various tools to help you design, code, test, and deploy your solutions. These tools can range from programming languages and frameworks to editors and IDEs to version control and testing tools to cloud platforms and services. **List out** the system development tools required for developing a system.