

1st sem: Final

10th



Daffodil International University  
Faculty of Science & Information Technology  
Department of Information Technology & Management  
Final Examination, Fall 2024

Course Code: ITM 111; Course Title: Computer Fundamentals

Sections & Teachers: MA

Time: 2:00 Hrs

Marks: 40

Answer ALL Questions

*[The figures in the right margin indicate the full marks. All portions of each question must be answered sequentially.]*

|    |    |                                                                                                                                                                                        |           |                  |
|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|
| 1. | a) | What's the purpose of writing comments, main function and header files in a C program? <b>Mention</b> 2 different techniques for writing comments in C.                                | [Marks-5] | CLO-3<br>Level-1 |
|    | b) | <b>Perform</b> the following conversions:<br>$(137246)_8 = (?)_{10} = (?)_2 = (?)_{16}$                                                                                                | [Marks-5] | CLO-3<br>Level-3 |
| 2. | a) | Explain how the P2P network works. <b>Differentiate</b> between P2P network and client server network.                                                                                 | [Marks-5] | CLO-4<br>Level-4 |
|    | b) | Suppose you are told to build a fault tolerant network system. You are given two options- mesh topology and ring topology. Which topology will you choose? <b>Justify</b> your answer. | [Marks-5] | CLO-4<br>Level-5 |
| 3. | a) | Define a utility program with an example. <b>Differentiate</b> between GUI and CLI based operating systems.                                                                            | [Marks-5] | CLO-5<br>Level-4 |
|    | b) | What is an operating system? <b>Define</b> the following terms: Kernel program, transient program, throughput, turnaround time.                                                        | [Marks-5] | CLO-5<br>Level-1 |
| 4. | a) | <b>Describe</b> 3 main security principles with real life examples. How can you ensure availability for your computer network system?                                                  | [Marks-5] | CLO-4<br>Level-2 |
|    | b) | Define encryption in your own words. <b>Differentiate</b> between symmetric key and asymmetric key encryption.                                                                         | [Marks-5] | CLO-4<br>Level-4 |