**National University of Sciences & Technology  
School of Electrical Engineering and Computer Science**

Department of Humanities and Sciences

MATH-232: Complex Variables and Transforms (3+0): BEE2k20-12ABC Spring 2022

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| **Assignment − 3** | |
| **CLO-3 (Evaluate Fourier and Z-transforms of a given function)** | |
| Maximum Marks: 10 (5+5) | Instructor: Mr. Saeed Afzal |
| Announcement Date: 18th May 2022 | Due Date: 25th May 2022 |

**Instructions:**

* Understanding the question is part of the assignment and copying is not allowed.
* Express your answer in the most simplified form. Direct calculations using calculator are not allowed, you need to show the detail of your work to get the maximum marks.
* This is an individual assignment.
* Assignment must be handwritten and properly arranged with page numbers These two pages must be part of every assignment.
* Assignment is not acceptable after deadline.

Tasks: Attempt all questions.

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| **Students Name** | **NUST/Qalam ID** | **Section** |
| Muhammad Umer | 345834 | BEE 12C |

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| **Total Marks** | **Marks Obtained** |
| 10 Marks |  |

**Q – 1 (5 marks):** Evaluate Fourier transform and sketch the magnitude and phase spectra of the function given by:

Note: 5 marks are assigned for class participation.