BRAC University (Department of Computer Science and Engineering)
CSE 330 (Numerical Methods) for Spring 2024 Semester

Quiz 5 [CO1]

Student ID: Jannatul

Name: Jannatul Somiya Mahmud

Section: 08

Full Marks: 10
Duration:15 minutes

---

1. You are given

3   0   -3

$$\begin{pmatrix} 2 & 1 & 2 \\ 4 & 1 & 3 \\ 5 & 2 & 3 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 0 \\ 3 \\ 6 \end{pmatrix}$$

i) Find F^1 **(1.5)**
ii) Find F^2 **(2)**
iii) Find U **(1)**
iv) Find L **(1.5)**
v) Find the solution of the system. **(4)**