

Set-A**AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY****Department: Arts and Sciences****Program: B. Sc. in Computer Science and Engineering****Exam Name: Quiz#4 (Section A)****Semester: Fall, 21****Year: 2nd****Semester: 2nd****Course Number: Math 2203****Course Name: Mathematics IV****Total Marks: 20****Time: 25 Minutes**

Answer all the following questions:		Marks
1.	Use row canonical form to find the inverse of the matrix: $\begin{bmatrix} 2 & 3 & -4 \\ 1 & 2 & 3 \\ 3 & -1 & -1 \end{bmatrix}$.	10
2.	Use elementary transformations of matrices to reduce the following matrix into row reduced echelon form. $\begin{bmatrix} 1 & 2 & -1 & 2 & 1 \\ 2 & 4 & 1 & -2 & 3 \\ 3 & 6 & 2 & -6 & 5 \end{bmatrix}$.	10

Set-B**AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY****Department: Arts and Sciences****Program: B. Sc. in Computer Science and Engineering****Exam Name: Quiz#4 (Section A)****Semester: Fall, 21****Year: 2nd****Semester: 2nd****Course Number: Math 2203****Course Name: Mathematics IV****Total Marks: 20****Time: 25 Minutes**

Answer all the following questions:		Marks
1.	Use row canonical form to find the inverse of the matrix: $\begin{bmatrix} 3 & 4 & -1 \\ 1 & 0 & 3 \\ 2 & 5 & -4 \end{bmatrix}$.	10
2.	Use elementary transformations of matrices to reduce the following matrix into row reduced echelon form. $\begin{bmatrix} 1 & 3 & -1 & 2 \\ 0 & 11 & -5 & 3 \\ 2 & -5 & 3 & 1 \\ 4 & 1 & 1 & 5 \end{bmatrix}$.	10