CSE321: Operating Systems
Quiz 6 SET A

Name:	ID:	Section:

Marks: 10 **Time: 20 minutes**

Instructions: Answer all questions on the space provided below for each.

Question 1: [CO2] Consider a computer with a main memory that has **4 frames** and a page reference string of some pages [3 2 4 1 0 5 4 2 0 0 3 7 4 5]. The page reference string represents the order in which the pages are accessed by a program. Apply **LRU** & **Optimal** algorithm to simulate the page replacement that occurs when the main memory can hold at most **4 pages** at a time. Record the number of page faults and compare the results with appropriate calculations. Mention which algorithm performs better in this scenario. **[Marks 10]**

CSE321: Operating Systems
Quiz 6 SET B

Name:	ID:	Section:

Marks: 10 **Time: 20 minutes**

Instructions: Answer all questions on the space provided below for each.

Question 1: [CO2] Consider a computer with a main memory that has **4 frames** and a page reference string of some pages [2 3 4 1 0 5 4 3 0 0 2 7 4 5]. The page reference string represents the order in which the pages are accessed by a program. Apply **FIFO** & **Optimal** algorithm to simulate the page replacement that occurs when the main memory can hold at most **4 pages** at a time. Record the number of page faults and compare the results with appropriate calculations. Mention which algorithm performs better in this scenario. **[Marks 10]**

CSE321: Operating Systems
Quiz 6 SET C

Name:	ID:	Section:

Marks: 10 **Time: 20 minutes**

Instructions: Answer all questions on the space provided below for each.

Question 1: [CO2] Consider a computer with a main memory that has **4 frames** and a page reference string of some pages [5 2 4 3 0 5 1 2 1 0 2 7 4 5]. The page reference string represents the order in which the pages are accessed by a program. Apply **FIFO** & **LRU** algorithm to simulate the page replacement that occurs when the main memory can hold at most **4 pages** at a time. Record the number of page faults and compare the results with appropriate calculations. Mention which algorithm performs better in this scenario. **[Marks 10]**