Kingdom of Saudi Arabia
Ministry of Higher Education
College of computer
Department of Information Technology

Qassim University جامعة القصيم

المملكة العربية السعودية
وزارة التعليم العالي
كلية الحاسب
قسم تقنية المعلومات

Course: Data Structure (CS214)
First Semester (451)

Mark_____/10

Quiz
Sunday 8/11/2023
Duration: 20 minutes

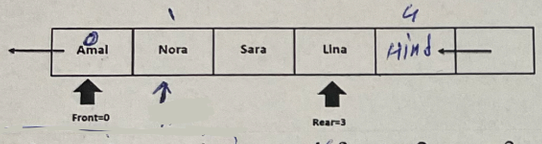
Student Name (in Arabic):	**tion No:**

Q1) Choose the correct answer (each has 1 point)

1 **On which element we perform insertion and deletion operation in stacks**
a. Front b.Top c. Rear d. None of the mentioned

2 **Where pointers would be pointing if...**
Amal leaves the Queue , Hind joins the Queue

FIFO insertion on the end
Removable from the beging



a.front = 1 rear = 4 b.front = 2 rear = 3 c.front = 0 rear = 4 d.front = 0 rear = 4

3 **Which one of the following is the overflow condition if linear queue is implemented using an array with a size MAX_SIZE?**
a. rear = front b. rear = front+1 c.rear=MAX_SIZE -1 d.rear = MAX_SIZE

4 **The difference between queue and stack is ____**
a. Queues requires dynamic memory but stack do not
b. Stack requires dynamic memory but queue do not
c. Queue use two ends of the structure, stack use only one
d. Stack use two ends of the structure, queue use only one

5 **What is the course name?**
a. Data structure b. CS214 c. Data structure –CS214 d. All of the mentioned

Q2) For each sentence put true if it is true or false otherwise (each has 1 point)

Sentence
6. Push operation removes the element from the top of the stack. ✗ pop
7. In a Queue Data Structure elements may only be retrieved from the front of the queue. ✓
8. Pushing an element into stack already having five elements and stack size of 5, then stack becomes Overflow. ✓ stack inarray
9. In queue, an element can be inserted in location pointed by rear (or tail). ✓
10. If the elements "A", "B", "C" and "D" are placed in a stack and are deleted one at a time, the order in which will they be removed is DCAB. ✗

Name

Quiz

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Key