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Class Test (2) Examination: Summer-2026
Course Code: CIS 122 (Batch: 24)
Course Title: Data Structure
Date: 13/07/2026

Time: 30 Minutes **Total Marks: 15**

1. Explain the concepts of overflow and underflow with suitable examples. [4]

2. An initially empty stack has a maximum capacity of four elements. Perform the following operations in sequence: [6]

   push(12), push(25), push(38), pop(), push(47), push(59), push(63), pop(), pop()

   Show the contents of the stack and the value of **TOP** after each operation. Also write the sequence of values returned by the pop() operations.

3. Consider the following unsorted array: A = [17, 42, 9, 31, 65, 23, 50, 11] [5]

   Using the **linear search** technique, what would be the result if the search value were 80?

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