

**test**

Subject: Introduction to Programming  
Duration: 180 minutes

Exam Type: End Semester  
Total Marks: 10

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*Instructions: Review all questions. This is a question paper only with no answer spaces provided.*

**Q1. Analyze the concept of a stack data structure. Describe its key characteristics, including its underlying principle (LIFO), common operations (push, pop, peek), and typical applications in computer science. Illustrate your answer with examples of how stacks are used in practical scenarios. [10 marks]**