



**Module-5**

- 9 a. What is a distributed I/O? Explain in detail with its advantages. (10 Marks)  
b. How would you evaluate the effectiveness of using virtual instrumentation for simulating complex systems? (10 Marks)

**OR**

- 10 a. What are the key factors to consider when developing a control system using virtual instrumentation? (10 Marks)  
b. How would you apply the acquired images in a virtual instrumentation system to extract meaningful data and improve the performance of control system? (10 Marks)

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