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Class Test-1, Fall 2025

Course Code: CIS121, Course Title: Introduction to Industry 4.0

Time: 25 Minutes **Marks: 15**

Name: Rafid Awsaf Chowdhury	ID: 253-16-017
Section: 23(A)	Date: 15-10-25

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1. **Which of the following is not an AI application sector?**
   (a) Healthcare (b) Finance (c) Agriculture (d) Textiles
2. **Which of the following is NOT a core technology of Industry 4.0?**
   (a) Artificial Intelligence (b) Steam Power (c) Cloud Computing (d) Internet of Things (IoT)
3. **What is a major characteristic of Industry 4.0?**
   (a) Use of steam engines in production (b) Automation with minimal human intervention
   (c) Mass production without digitalization (d) Dependence on manual labor for all tasks
4. **Autonomous robots can be used in which core technology?**
   (a) Smart Logistics (b) Industrial Simulations (c) Remote Monitoring (d) Predictive Analysis
5. **Which of the following is the main feature of the Second Industrial Revolution?**
   (a) Steam Power (b) Electricity (c) Automation (d)Artificial Intelligence

6. **Differentiate between programming and scripting. Write any two built-in data types of Python.[4]**

The differences between programming and scripting are:
① programming executes a code whereas scripting interprets
② programming uses Scripting code only helps the software.

Two built-in data types in python are:
① str (string) example: x = "Bangladesh" here Bangladesh is a string
② int (integer) example: y = 017 here 017 is a integer.

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7. The Department of CIS wants to upgrade its traditional teaching methods to a smart learning environment using Industry 4.0 principles.
   Explain how Artificial Intelligence (AI) can facilitate this transformation. Provide a specific example of AI application in this context. **[6]**