



Class Test-1, Fall 2025

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

Time: 25 Minutes

Marks: 15

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Section: 23(A)

Date: 15-10-25

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 and 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.

3.5

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]