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Marks:

Department of Computing and Information System (CIS)

Class Test-3, Spring 2026

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

Time: 30 Minutes **Marks: 15**

Name:	**ID:**
Section:	**Date:**

1. **Differentiate between on-premise servers and cloud servers.** [4]

2. **What is Big Data? Explain the importance of the 5 V's in Big Data.** [5]

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3. A modern hospital uses wearable sensors to continuously monitor patients' vital signs such as heart rate, body temperature, blood pressure, and oxygen levels. Medical imaging devices and smart monitoring systems collect additional diagnostic data. All data is transmitted to a central healthcare system, which analyzes the information in real time, automatically alerts doctors in case of abnormalities, and supports decisions for treatment and resource allocation.

Explain how data from these devices is collected, processed, and used to improve patient care and resource efficiency. **[6]**

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