DAILY ASSESSMENT FORMAT

Date:	**10/07/2020**	**Name:**	**Nichenametla Bhargavi**
Course:	Introduction to Internet of Things	**USN:**	**4AL17EC061**
Topic:	Chapter 6	**Semester & Section:**	**6th Sem A sec**
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AFTERNOON SESSION DETAILS

Image of the session

Report- Report can be handwritten or typed within one or two pages.

Become an Informed Consumer:

The last few years have given us improvements in the speed and availability of Internet services, as well as advances in cloud computing and sensor technology. These technical gains, together with recent developments in automation and artificial intelligence, have created a highly digitized world. Digitization currently impacts every aspect of our daily lives. Digitization continues to provide new opportunities for professionals who are trained to develop and support the technology that is used to deliver the IoT.

The IoT provides an immeasurable amount of information that is readily available for consumption. This information can be quickly analyzed and used to automate many processes that were previously considered impossible to turn over to machines. For example, just a few years ago self-driving cars existed only in our imaginations and now they are a reality. Think about what else has changed in your life because of the IoT.

Challenges in the Digitized World:

The IoT provides many benefits but at the same time it presents many challenges. Since the IoT is a transformational technology, we are now faced with an ever expanding collection of new technology that we must master. The IoT is changing every aspect of our lives.

This is not the first time we have experienced a technological development that has such an impact. Mechanization on the farm allowed increased productivity of available farmland and started the migration of the population from rural to urban areas. The development of the automobile allowed for greater mobility of the workforce and increased recreational activities. The personal computer allowed the automation of many routine tasks with improved accuracy and efficiency. The Internet started to break down geographic barriers and improve equality between people on a global scale. These are only a few of the transformational technologies that we have experienced in recent history.

The Evolving Job Market:

The IoT is changing the job market. Traditional jobs are being replaced with jobs that are designed to embrace this new world and all it offers. In IT, opportunities may be specific to fog computing, developing new processes, or a specialization in a discipline that has not yet been realized. These jobs reflect skills spanning multiple disciplines that include computer science, computer engineering (a blend of computer science and electrical engineering), and software engineering in the following areas:

* Artificial Intelligence
* Application Development
* IoT Program Developer
* IoT Security Specialist
* Collaboration
* Enterprise Networks
* Data Center and Virtualization

Entrepreneurs needed!

The IoT is also creating a demand for a new kind of IT specialist. These are individuals with the knowledge and skillsets to develop new IoT-enabled products and process the data they collect.

An entrepreneurial workforce is needed that specializes in both information science and software or computer engineering. Additionally, operational technologies and information technologies are converging in the IoT. With this convergence, people must collaborate and learn from each other to understand the things, the networks, and methodologies that harness the limitless potential of the IoT.

Summary:

Digitization continues to provide new opportunities for professionals who are trained to develop and support the technology that is used to deliver the IoT.

In IT, opportunities may be specific to fog computing, developing new processes, or a specialization in a discipline that has not yet been realized. These jobs reflect skills spanning multiple disciplines that include computer science, computer engineering (a blend of computer science and electrical engineering), and software engineering.

There are broad categories that summarize the job opportunities that exist in the evolving digitized world:

• Enablers – These jobs develop and implement the underlying technology.

• Engagers –These jobs design, create, integrate, and deliver IoT services to customers.

• Enhancers – These jobs devise their own value-added services, on top of the services provided by Engagers, which are unique to the Internet of Things.

An entrepreneurial workforce is needed that specializes in both information science and software or computer engineering. The Cisco Networking Academy Program has trained more than five million students to date.

There are two basic types of certification available: vendor-specific and vendor-neutral. Vendor-specific certifications are tailored to technologies offered by a company to prove that an individual is qualified to deploy and manage that technology. Vendor-neutral certifications are offered by many different organizations. Certifications can show an employer that an individual has the appropriate skills for a job.