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**BSIT-601**

**Chapter 10**

1. How can Futuristic Technology be defined

* The futuristic technology is a technologies that can change the how people live in their daily lives.

1. Which are the top Futuristic technologies?

* 3D Printing Technology
* 6G Technology
* Autonomous Robots
* Artificial neurons
* Artificial General Intelligence
* Mind Uploading
* Driverless Vehicles
* Infrastructure Hacking
* Regenerative Medicine
* Digital Twin (DT) Technology
* Programmable Living Robots
* Human Augmentation
* Intelligent Process Automation (IPA)
* Space Elevator
* Rotating Skyhook
* Light Sail

1. How did 3D printing begin?

* The 3D printing starts in 1940’s when the idea of 3D printing came to the minds of the scientist.

1. What are the applications of 3D printing?

* The application of 3D printing are work, companies, and printed parts it is used to create different products that is in 3D print like Nike and other manufacturing clothes, shoes, and etc.

1. In what ways does 6G technology differ from other technologies?

* It is more futuristic than the other technology. The reason is because it more efficient and futuristic that any business needed.

1. What is the need for 6G technology?

* It is need because it is advanced technology is the most fundamental component for business to create a high improvement and enhancement in term of business. To make more efficient and faster in terms of business.

1. What is a data center?

* It is storage where the data is store. It is facility that accommodates the critical application and data.

1. What is autonomous robot?

* It is a robot that is intelligent machines that can do a task without any intervention of human being.

1. What are autonomous mobile robots (AMRs)?

* The autonomous mobile robots a task-oriented, self-operating and self maintain machines also without any intervention with human beings. They can also tackle different type of issue that can overcome hindrances.

1. In what sense are Artificial Neurons useful?

* It is like biological neurons that can function in human brain. Like, the five senses and the gut feeling that a human have.

1. What are AGI and ASI?

* The AGI is a equal to the thinking, understanding, learning and applying the intelligence to solve complex problems. While the ASI is the most advanced AI. Which is the supersede the capabilities and the power of the most genius brains on the earth.

1. Why is Digital Twin(DT) technology Important?

**Chapter 11**

1. How do modern technologies impact cyber security?

* Cyber security impact the modern technology base on the use of business in a faster way to achieve a competitive edge in the market.

1. How are the advanced technologies affecting cyber security?

* It affects different domains that we are moving in. The market is the most affected of cyber security because of the emerging and disruptive technology that we have.

1. Extensive data exposure: what are the risks?

* The risk is the information that is exposing to the public. It is a big risk because a lot of people will see it. The hackers and malicious actors is bold to attacks.

1. Is there a strategy for controlling cyber breaches?

* Yes there is, people should know first about the technology that they will be entering to lessen the data breaches.

1. What is the reason for the shortage of cyber security professionals?

* The reason of the shortage of cyber security professionals is because of the skills and qualified cyber security professional.

1. What impact do cyber-attacks have on businesses?

* The impact of cyber security on business is increasing burden because of the threat that they have in the business.

1. What are the main reasons for data exposures?

* The main reasons are the huge number of devices, increased number of user accounts, mismanagement of password, out dated software, and the people is not totally expert to it.

1. What is Risk?

* Risk is exposure or a danger in a business. That can cause a big loss in the business that you are in.

1. How can cyber security affect national Security?

* It affect as a direct cyber-attack in institute, agencies and asset. Also, the entire ecosystem of the nation is disturbed.

1. What is zero trust policy?

* What I understand here is never trust anyone but you need to verify or check for the security that you have.