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**Section:IT 601**

**Test Questions chapter 10**

1. How can Futuristic Technology be deϐined?

--Futuristic technology is a relationship between the current and also the future design of an technology not only design but also the how it works best example is the traditional printer it is design to print letters images but unlike the futuristic design of a printer which is the 3d printing not just the letter but the whole object it self.

1. Which are the top Futuristic Technologies?

--3D Printing Technology ,6G Technology ,Autonomous Robots ,Artiϐicial Neurons ,Artiϐicial General Intelligence (AGI) ,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?

--in the year 1980, the 3d printing was spread outand also considered as useful prototyping that is why it was used to to be called rapid prototyping and no is the 3d painting.

1. What are the applications of 3D printing?

--The application of the 3d printing is now wide and now its application too is now wider here is the important applications for 3d painting manufacturing industry, fashion industry, firearm industry, healthcare industry, Transportation and aviation industry , Culture heritage industry, Education and training sectors.

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

--This are the reason why the 6G technology differ and needs by the generation of the technology because of its advancement like the convergence of technology,Incorporation of high performance computing (HPC),Internet of Things (IoT) network,Mobile Edge computing

1. What is the need for 6G technology?

--This are the reason why the 6G technology differ and needs by the generation of the technology because of its advancement like the convergence of technology,Incorporation of high performance computing (HPC),Internet of Things (IoT) network,Mobile Edge computing

1. What is a data center?

--a physical facility that organizations use to house their critical applications and data. A data center's design is based on a network of computing and storage resources that enable the delivery of shared applications and data.

1. What is an autonomous robot?

-- Autonomous mobile robot is intelligent machine that can perform without any intervenion with the human the can perform task without help of the humans.

1. What are autonomous mobile robots (AMRs)?

-- The autonomous mobile robots are indutrial robotic arms, self-driving cars, space probes, flying robots.

1. In what sense are Artiϐicial Neurons useful?

--Artificial neurons act like bioligical neurons functioning in human brain that’s why artificial neurons is very useful because of its capacity.

1. What are AGI and ASI?

--Artificial general Intelligence is reffered to us deep artificial intelligence which can be compared on how thr people thick learn and applying the intelligence they has.While Artificial Super Intelligence is most advance artificial intelligence where the it can surpass the most genius brains that person has.in this level the ISA is one the threatening intelligence that will build.

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

--The reason why Digital Twin as well DT is implement it because on this technology it helps the industries to save prototyping cost and operationa; failures products.

**Test Questions**

1. How do modern technologies impact cybersecurity?

--The impact of modern technologies In cyber security first it expands the threat surface because of the expanssion of the of the modern technology that riches fast to achieve the competitive edge in the market.this kind of race that manu markets with the help of their advance and emerging technologies often leave numerious security aspects skipped and over looked.

1. How are the advanced technologies affecting cybersecurity?

--The impact of those technologies is felt in numerous day-to-day

personal, business, and governmental activities. For instance, the total

cost of cybercrimes in the world is expected to cross USD $10.5 trillion

annually, which were just USD $6 trillion in 2021 [285].

1. Extensive data exposure: what are the risks?

-- here are the risk Risk to National Security

Breach of Privacy

Increased Burden of Cybersecurity on Businesses

Shortage of Cybersecurity Specialists

Risk of Extensive Data Exposure

Society and Business Manipulation.

4. Is there a strategy for controlling cyber breaches?

--yes to controll the cyber breacher everyone needs to be more carefull in the online world become vigilant.

5.What is the reason for the shortage of cybersecurity professionals?

--Here is the reason why the cyber professionals is depleting rather haveng a shortage it because of The advancements in the emerging

technologies and newly introduced technological business ecosystems

have aggregated this problem for all types of businesses and

government agencies simultaneously.

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

-- the impact of the cyber attacks ussally in the buissnesses is the customers will staty away with that buissness thinking that its not safe that’s why this buissness that has been attack will wliminate many customers untill they will shutdown

1. What are the main reasons for data exposure?

--is to pertain to modern and innovative technologies include the huge numbers of devices in highly diverse environments .

1. What is Risk?

-- Risk is the chances of people that will say that is it bad luck or a goodluck. If you will do something bad and anyone saw it then you will have the risk that they will caught you.

1. How can cybersecurity affect national security?

--it because the in todays world we are now connected and interrlinked that no body can escape from the impact of ones in a country r even in the forein country.

1. What is Zero trust policy?

--it means that no one other than you will know nor your partners work mates or even higher ups.always verify policy on your company.