



## Chapter-9 Overview on Futuristic IT Technology and Cyber Security

### A. Multiple Choice Question

1. Which role do Internet technologies and the 'IoT' play in the context of industry 4.0?
  - a. They form the base to connect everyday items
  - b. They form the base for an environmental –friendly production
  - c. They form among other the base for corporate communication
  - d. None of the above
2. What is Artificial Intelligence?
  - a. Putting your intelligence into Computer
  - b. Programming with your own intelligence
  - c. Making a machine intelligent
  - d. Putting more memory into computer
3. Who created Bitcoin?
  - a. Satoshi Nakamoto
  - b. Samsung
  - c. John Mcafee
  - d. China

4. When will Industry 4.0 reach the market?
- To reach a production environment
  - First implementation will be released by 2020
  - Industry 4.0 is already being used in several production lines
  - All of the above
5. Which of these is not a type of cloud computing usage?
- Platform as a service
  - Hardware as a service
  - Software as a service
  - Infrastructure as a service
6. What is a private key?
- A key on your key chain
  - A key given to the public
  - A key NOT to be given to the public
  - A key that opens a secret door
7. Cloud services have a \_\_\_\_\_ relationship with their customers.
- Many-to-Many
  - One-to-Many
  - One-to-One
  - None of these

8. Which one is not an element of IoT?

- a. Security
- b. Process
- c. People
- d. Things

9. The device connected to the internet of things have to communicate automatically, not via humans. What is this called?

- a. Bot-to-Bot (B2B)
- b. Machine-to-Machine (M2M)
- c. InterCloud
- d. Skynet

10. What is blockchain?

- a. A distributed ledger on a peer-to-peer network
- b. A type of Cryptocurrency
- c. An exchange
- d. A centralized ledger

**B. State whether the following statement are True or False**

1. Bitcoin is the first distributed blockchain implementation.
2. A node is a computer on a blockchain network.
3. Cloud computing networks are designed to support only private or hybrid clouds.

4. You cannot access your data from any computer in the world, as long as you have an internet connection.

5. A block in the blockchain can never have more than one parent block.

6. Cloud computing refers to application and services that run on a distributed network using virtualized resources .

7. Trojan horses are very similar to virus in that they are computer programs that replicate copies of themselves.

8. 3D printing technology is expanding and is now able to print metal parts.

9. In blockchain, each block is linked backward to the previous block

10. VR is used for medical, piloting, and military training purposes.

**C. Match the following:**

1. Making a machine intelligent:	a. Private Cloud
2. It is a realistic three dimensional image:	b. Blockchain
3. A service that can be accessed by a limited amount of people:	c. Artificial Intelligence
4. HMD stand for:	d. Miner
5. A distributed ledger on a P2P network :	e. Limited Memory

6. Computer that validate and process blockchain transaction:	f.Virtual Reality
7. Computer that validate and process blockchain transaction:	g. Hadoop
8. Bid Data processing and analysis can be done by	h. Head mounted display
9. It is the protection of interconnected system including hardware, software and data	i. Security
10. Password are used to improve the_____ of a network	j. Cybersecurity

### D. Fill in the blanks

a. SHA256	b. Immersive	c. Hash algorithm	d. M2M	e. Public	f. Software as a service
g. Predictive analysis	h. Blockchain	i. Radio identification	j. Technology	k. Theory of mind	l. Public key

1. Bitcoin is based on\_\_\_\_\_ blockcahin.
2. \_\_\_\_\_hash identifying each block in the Blockcahin is generated using cytopgraphic algorithm .
3. The entire blockcahin is protected by a strong cytopgraphic \_\_\_\_\_.

4. \_\_\_\_\_ describes a distribution model in which application are hosted by a service provider and made available to users.
5. In \_\_\_\_\_ VR, subjects are visually isolated from the real environment.
6. The huge number of devices connected to the internet of things have to communicate automatically is called \_\_\_\_\_.
7. \_\_\_\_\_ is being used by internet of things.
8. \_\_\_\_\_ uses many techniques like data mining and artificial intelligence to analyze current data and make scenarios of that might happen.
9. Bitcoin transaction are verified by network node and recorded in a public distribute ledger called a \_\_\_\_\_.
10. \_\_\_\_\_ understand the human emotions, people, beliefs, and be able to interact social like humans.

### Answers

A.	1. a	2. c	3. a	4.c	5. b
	6. c	7. b	8. a	9. b	10. a

B.	1. T	2. T	3. F	4. F	5.T
	6. T	7. F	8. T	9. F	10. T

C.	1. c	2. f	3. a	4. h	5. b
	6. b	7. e	8. g	9. j	10. i

D.	1. e	2. a	3. c	4. f	5. b
	6. d	7. i	8. g	9. h	10. j

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B.

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