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CISCO Introduction to IoT Final Exam Answers

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Q1) Change will have to occur in the corporate network in order to prepare for the Internet of Things. Which type of testing would a company do to demonstrate the benefits of networking a new "thing" that was not on the network before?

- prototyping
- transference
- developmental
- formative

Q2) A company requires using a secure encrypted internet connection when connecting to the corporate network from outside the company. Which technology should be used when employees travel and use a laptop?

- VPN
- Wi-Fi hotspot
- Siri
- Bluetooth

Q 3) What is a key feature of the assurance element of the intent-based networking model?

- end-to-end verification of network-wide behavior
- verification of configuration before devices are deployed
- provisioning of intent-based policies
- application of business intent to network configuration

Q4) Which security best practice involves defining company rules, job duties, and expectations?

- implementing physical security
- maintaining patches and updates
- developing a security policy
- performing risk assessments

Q5) Which two data types would be classified as personally identifiable information (PII)? (Choose two.)

- hospital emergency use per region
- house thermostat reading
- Facebook photographs
- average number of cattle per region
- vehicle identification number
- Navigation Bar

6) True or False? Comma-separated values (CSV), JSON, and XML are all tools that can be used to manipulate structured data.

- false
- true

Q7) Which statement describes global variables in programming languages?

- They cannot be used within any functions in a program.

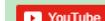
• They can only be used within the function they are declared.

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• They can only be used within the function they are declared.

- They can be used within any function of a program.
- They are declared within a function.
- Navigation Bar

Q 8)Which two types of institutions do malicious web pages often look like?

(Choose two.)

- **bank**
- commercial
- **financial**
- technical
- academic

Q9)True or False?

With artificial intelligence, smart devices can modify processes and settings on the fly in response to changes on the network.

- false
- **true**

Q10)Which two skills help with IoT prototyping? (Choose two.)

- database administration
- welding
- Windows operating systems
- **programming**
- **design**

Q11)Match the term with the definition. (Not all options are used.)

- **Hadoop** – a comprehensive ecosystem...
- **distributed processing** – breaks large volumes of data...
- **fog computing** – an architecture that utilizes...
- **cloud services** – a collection of data centers...

Q12)Which technology is used as a visual programming tool to create a program by connecting colored blocks?

- Arduino
- JavaScript
- Python
- **Blockly**

Q13)What limits the types of different objects that can become intelligent sensors on the Internet of Things?

- the size of the internet
- **our imagination**
- the government
- availability of power for consumption

Q14)Match the logic structure to the function.

allow the code to make decisions – if-then

execute a block of code while a condition is true – while

repeat the execution of a specific block of code for a specific number of times – for

Q15) What device provides auto discovery services for smart devices that are connected to the network?

- PC
- laptop
- **home gateway**
- tablet

16)What is the purpose of Packet Tracer?

- **to simulate and visualize one or more networks**
- to provide products and services to internet customers
- to enable the sharing of resources such as printers, documents, pictures, and music between a few local computers
- to use electromagnetic waves to carry signals over a specific geographic area

Q 17)What are two features of automation? (Choose two.)

- **a process that eventually eliminates the need for human intervention**
- a process that always uses sensors
- **a process that is self-driven**
- a process that always uses robots
- a process that results in 12 hour shifts

Q18)How is data that has been collected through sources such as web pages, audio, or tweets categorized?

- raw data
- structured data
- **unstructured data**
- application data
- Navigation Bar

Q 19)What is an open-source physical computing platform that can take input from a variety of switches or sensors to control physical objects?

- Raspberry Pi
- Beaglebone
- **Arduino**

Q20)Which technology has the intelligence that is demonstrated by machines in a way that mimics human cognitive functions?

- **AI**
- IBN
- CSV
- ML

Q 21)Which character is used within a search engine to gather data efficiently by placing the character before and after the name of a particular person?

- quotation mark ("")
- semicolon (;)
- question mark (?)
- colon (:)
- Navigation Bar

Q22)What is the largest network in existence?

- **the internet**
- a PAN
- a WAN
- the fog
- Navigation Bar

Q23)Which type of network consists of wired computers in a college classroom?

- PAN
- **LAN**
- MAN
- WAN
- Navigation Bar

Q24) What are the two areas of physical security within a data center?

- **inside**
- restricted
- public
- private
- **outside**
- Navigation Bar

Q25) What are two things that all digital devices need in order to work? (Choose two.)

- **computer program**
- global positioning satellite
- sensor
- **data**
- artificial intelligence
- Navigation Bar

Q26)What are two requirements to connect a smart device to a home wireless network? (Choose two.)

- URL
- **SSID**
- home gateway name
- **IP addressing**
- GUI

Q 27)What is the core component of Intent-Based Networking?

- fog computing
- the internet
- the cloud
- **artificial intelligence**

Q 28)What are three attributes of data that would indicate that it may be big data? (Choose three.)

- **volume**
- vulnerability
- **velocity**
- versatility
- visibility
- **variety**

Q 29)Which technology is a subset of AI that uses statistical techniques to enable computers to "learn" from collected data?

- **ML**
- CSV
- IBN
- JSON

Q 30)What is the purpose of data analytics?

- to optimize data storage
- to compress data
- **to gain new insights from data**
- to ensure data security

Q 31)What are two characteristics of the Python programming language? (Choose two.)

- It requires a compiler to be installed.
- It uses the & symbol to indicate that the interactive mode is ready to accept commands.
- **It runs without conversion to machine-language.**
- **The code is easy to read.**
- It only runs in the interactive mode.

Q 32)Which type of network is the connection between a Bluetooth headset and a vehicle?

- **PAN**
- cloud
- LAN
- MAN

Q 33) What is used to provide IoT sensors with access to the network?

- an actuator

- fog computing
- a microcontroller
- a laptop
- Navigation Bar

Q34) What are three benefits of cloud computing? (Choose three.)

- **It streamlines the IT operations of an organization by subscribing only to needed services.**
- It uses open-source software for distributed processing of large datasets.
- **It eliminates or reduces the need for onsite IT equipment, maintenance, and management.**
- It turns raw data into meaningful information by discovering patterns and relationships.
- **It enables access to organizational data anywhere and at any time.**
- It utilizes end-user clients to do a substantial amount of data preprocessing and storage.

Q35) Mined data can be visualized through the use of charts. Select two criteria that can be used to determine the best chart selection. (Choose two.)

- **items requiring comparison**
- size of the chart
- **number of variables to be shown**
- data format
- file size



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