1. Which of the following is NOT an IoT platform?
a) IBM Watson IoT
b) Arduino
c) Raspberry Pi Board
d) Microsoft Office 365

Answer: d) Microsoft Office 365
Explanation: Microsoft Office 365 is a suite of productivity tools, not an IoT platform. The other options are commonly used IoT platforms for developing and managing IoT applications.

2. Which IoT platform is typically used for rapid prototyping and DIY projects?
a) IBM Watson IoT
b) Raspberry Pi Board
c) Amazon Web Services (AWS) IoT
d) Google Cloud IoT Core

Answer: b) Raspberry Pi Board
Explanation: Raspberry Pi is a popular choice for rapid prototyping and do-it-yourself (DIY) projects due to its affordability and versatility.

3. What is a common programming language used for Arduino development?
a) Java
b) Python
c) C/C++
d) JavaScript

Answer: c) C/C++
Explanation: C/C++ is the primary programming language used for Arduino development due to its efficiency and compatibility with the microcontroller architecture.

4. Which cloud service provider offers AWS IoT Core for IoT application development?
a) Google Cloud Platform (GCP)
b) Microsoft Azure
c) Amazon Web Services (AWS)
d) IBM Cloud

Answer: c) Amazon Web Services (AWS)
Explanation: AWS IoT Core is a platform provided by Amazon Web Services (AWS) for developing and managing IoT applications.

5. Which cloud storage model is most suitable for IoT applications requiring real-time data processing?
a) Public cloud
b) Private cloud
c) Hybrid cloud
d) Edge computing

Answer: d) Edge computing
Explanation: Edge computing allows data processing to occur closer to the source of data generation, reducing latency and enabling real-time processing, which is beneficial for IoT applications.

6. What is a common communication API used for IoT devices to exchange data with cloud

platforms?
a) RESTful APIs
b) SOAP APIs
c) GraphQL
d) gRPC

Answer: a) RESTful APIs
Explanation: RESTful APIs (Representational State Transfer) are commonly used for communication between IoT devices and cloud platforms due to their simplicity and compatibility with web-based protocols.

7. Which of the following is NOT a typical attack in an IoT system?
a) DDoS attacks
b) Man-in-the-Middle (MitM) attacks
c) Buffer overflow attacks
d) SQL injection attacks

Answer: d) SQL injection attacks
Explanation: While SQL injection attacks are common in web applications, they are not typically associated with IoT systems, which often involve attacks like DDoS, MitM, and buffer overflow attacks.

8. What is vulnerability analysis in the context of IoT?
a) Analyzing potential weaknesses in IoT devices and systems
b) Implementing security measures in IoT networks
c) Developing IoT applications
d) Monitoring IoT data streams

Answer: a) Analyzing potential weaknesses in IoT devices and systems
Explanation: Vulnerability analysis involves identifying and assessing potential weaknesses or flaws in IoT devices and systems that could be exploited by attackers.

9. Which IoT case study involves the automation of household tasks and appliances?
a) Smart Farming
b) Industrial IoT
c) Smart Home
d) Healthcare IoT

Answer: c) Smart Home
Explanation: Smart Home involves the use of IoT technology to automate and control household tasks and appliances for increased convenience and energy efficiency.

10. Which IoT case study focuses on using IoT devices for monitoring and optimizing agricultural processes?
a) Smart Home
b) Industrial IoT
c) Healthcare IoT
d) Smart Farming

Answer: d) Smart Farming
Explanation: Smart Farming utilizes IoT devices and sensors to monitor environmental conditions, optimize resource usage, and improve crop yields in agricultural settings.

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