

CLOUD COMPUTING ANSWER KEY

1. What is Cloud Computing?

- **Answer: B) Using remote servers to store, manage, and process data over the internet**

- **Explanation:**

Cloud computing involves using remote servers hosted on the internet to store, manage, and process data, instead of relying on local servers or personal computers.

2. Which of the following is NOT a characteristic of cloud computing?

- **Answer: C) Limited access**

- **Explanation:**

Cloud computing is characterized by **on-demand self-service, scalability, and resource**

pooling, while **limited access** contradicts the idea of the cloud being universally accessible.

3. Which cloud service model provides hardware and networking infrastructure on a pay-per-use basis?

- **Answer: B) IaaS (Infrastructure as a Service)**
- **Explanation:**

IaaS provides virtualized computing resources over the internet, including hardware and networking infrastructure, on a pay-per-use basis.

4. Which of the following is an example of IaaS (Infrastructure as a Service)?

- **Answer: A) Microsoft Azure**
- **Explanation:**

Microsoft Azure is an example of IaaS offering virtual machines, storage, and other infrastructure services to clients.

5. Which of the following is an example of SaaS (Software as a Service)?

- **Answer: B) Office 365**

- **Explanation:**

Office 365 is an example of **SaaS**, which provides software (in this case, Office tools) hosted on the cloud and accessed over the internet.

6. What is the primary advantage of cloud computing over traditional computing?

- **Answer: D) Scalability and flexibility of resources**

- **Explanation:**

Cloud computing offers **scalability** and **flexibility**, allowing businesses and individuals to increase or decrease their resource usage based on demand, without having to invest in physical infrastructure.

7. Which of the following is a major security concern with cloud computing?

- **Answer: B) Data privacy and security risks**
- **Explanation:**

Data privacy and security risks are major concerns in cloud computing, as sensitive data is stored remotely and potentially shared across multiple users or organizations.

8. What does the term "public cloud" refer to?

- **Answer: B) Cloud services that are available to the general public over the internet**
- **Explanation:**

Public cloud refers to cloud services that are provided by third-party providers and are accessible to anyone via the internet.

9. Which cloud deployment model allows for a combination of private and public cloud services?

- **Answer: C) Hybrid cloud**

. **Explanation:**

A **hybrid cloud** combines both **private** and **public** cloud services, allowing data and applications to be shared between them for greater flexibility.

10. Which of the following is an example of a public cloud provider?

. **Answer: D) All of the above**

. **Explanation:**

IBM Cloud, Google Cloud, and Microsoft Azure are all examples of **public cloud** providers that offer services to a wide range of customers.

11. Which of the following is the primary benefit of cloud scalability?

. **Answer: A) The ability to add or remove resources based on demand**

. **Explanation:**

Cloud scalability allows users to scale up (add

resources) or scale down (remove resources) depending on current demand, ensuring efficient use of resources.

12. What does the term "elasticity" in cloud computing refer to?

- **Answer: B) The flexibility to scale resources up or down based on demand**

- **Explanation:**

Elasticity in cloud computing refers to the cloud's ability to automatically adjust resources (increase or decrease) to meet the current demand.

13. Which of the following is a platform commonly used for cloud-based storage?

- **Answer: A) Dropbox**

- **Explanation:**

Dropbox is a popular platform for **cloud-based**

storage, allowing users to store and access files remotely.

14. Which of the following is a major advantage of using cloud storage for businesses?

- **Answer: C) Accessibility from anywhere with an internet connection**

- **Explanation:**

Cloud storage allows businesses to access their data from anywhere with an internet connection, providing flexibility and mobility.

15. What does "multi-tenancy" mean in the context of cloud computing?

- **Answer: A) Cloud servers are shared by multiple organizations, each with separate data storage**

- **Explanation:**

Multi-tenancy refers to a model where a single cloud server is shared by multiple organizations

(tenants), but each organization's data is kept separate and secure.

16. What is the purpose of cloud load balancing?

- **Answer: B) To ensure that cloud resources are used efficiently and evenly distribute traffic**

- **Explanation:**

Load balancing distributes incoming traffic or computing tasks across multiple resources to prevent overloading any single server or system.

17. Which of the following is an example of PaaS (Platform as a Service)?

- **Answer: B) Google App Engine**

- **Explanation:**

Google App Engine is an example of **PaaS**, which provides a platform for developers to build, host, and manage applications without managing the underlying infrastructure.

18. Which of the following is true about the "pay-as-you-go" model in cloud computing?

- **Answer: B) It charges based on the resources you use rather than flat rates**
- **Explanation:**

The **pay-as-you-go** model charges users based on their actual consumption of cloud resources, rather than requiring upfront costs or flat-rate billing.

19. Which of the following is a common feature of cloud services?

- **Answer: B) Centralized computing and resource management**

- **Explanation:**

Cloud services often use **centralized computing** and **resource management** to provide shared resources to multiple users efficiently.

20. Which of the following is an example of a cloud-based email service?

. **Answer: D) All of the above**

. **Explanation:**

Gmail, Microsoft Outlook, and Yahoo Mail are all examples of **cloud-based email services** that allow users to access their emails online from any device with an internet connection.