

Q-1 Answer the following questions

- 1) Define cloud. Explain characteristics of cloud computing. 7
- 2) Explain following historical development in cloud computing 7
 - a. Web 2.0
 - b. Distributed System

OR

- 1) Explain cloud computing reference model. 7
- 2) Explain different cloud computing platforms. 7

Q-2 Answer the following questions

- 1) What is parallel processing? Explain hardware architectures for parallel computing. 7
- 2) Explain system architectural style for distributed computing. 7

OR

- 1) Explain data centered architecture and call & return architecture from software architectural styles. 7
- 2) Explain SOA? Explain web services. 7

Q-3 Answer the following questions

- 1) Explain hardware-level virtualization. 7
- 2) What is hypervisor? Explain in detail. 7

OR

- 1) Explain advantages and disadvantages of virtualization. 7
- 2) Explain programming language-level virtualization and Desktop virtualization. 7

Q-4 Answer the following questions

- 1) Explain types of clouds. 7
- 2) Explain software as service. 7

OR

- 1) Explain platform as a service. 7
- 2) Explain infrastructure as service. 7

Q.5 Attempt the following (any seven)

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1. Which one of the following options can be considered as the Cloud?
 - a. Hadoop
 - b. Intranet
 - c. Web Applications
 - d. All of above
2. Applications and services that run on a distributed network using virtualized resources

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- is known as _____.
3. Which of the following architectural standards is working with cloud computing industry?
 - a. Service-oriented architecture
 - b. Web-application frameworks
 - c. Standardized Web services
 - d. None
 4. In Para virtualization VMs do not simulate the underlying hardware. (T/F).
 5. Which of the following is the most essential element in cloud computing by CSA?
 - a. Identity management
 - b. Access management
 - c. Virtualization
 - d. Multi-tenancy
 6. Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service. (T/F).
 7. In which of the following service models the hardware is virtualized in the cloud?
 - a. PaaS
 - b. CaaS
 - c. IaaS
 - d. NaaS
 8. Private cloud doesn't employ the same level of virtualization. (T/F)
 9. Write full form of PaaS.
 10. The machine on which the virtual machine is created is known as
 - a. Guest Machine
 - b. Host Machine
 - c. Visitor Machine
 - d. None
 11. In data parallelism, how are tasks typically divided among processing units?
 - a. Sequentially
 - b. Independently
 - c. With delays
 - d. Randomly
 12. Cloud computing relies on a decentralized model, where all processing and storage are done on the client devices. (T/F)

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