



BT – 030

VII Semester B.Tech. (CSE/ISE) Degree Examination, January 2022  
(CBCS Scheme)  
18CIPE75A : CLOUD COMPUTING

Time : 3 Hours

Max. Marks : 100

**Instructions :** 1) Q. No. 1, Q. No. 2, Q. No. 3 are **compulsory**.  
2) Answer Q. No. 4 or Q. No. 5, Q. No. 6 or Q. No. 7 and  
Q. No. 8 or Q. No. 9.

1. Answer **all** the following **15** questions. **Each** question carries **one** mark. (15×1=15)
- 1) The \_\_\_\_\_ allows systems and services to be accessible by a group of organizations.
  - 2) Which of the following are the features of cloud computing ?
    - a) Security
    - b) Availability
    - c) Large Network Access
    - d) All of the above
  - 3) Cloud computing is a \_\_\_\_\_ system and it is necessarily unidirectional in nature.
    - a) Stateless
    - b) Statefull
    - c) Reliable
    - d) All of the mentioned
  - 4) Which one of the following refers to the user's part of the Cloud Computing System ?
    - a) Back End
    - b) Management
    - c) Infrastructure
    - d) Front End
  - 5) Which of the following is correct concept related to Computing on Demand (CoD) ?
    - a) Virtualization helps us in implementing on-demand computing
    - b) Balance Workload dynamically across multiple servers
    - c) Increase end-user availability significantly
    - d) All of the above

P.T.O.



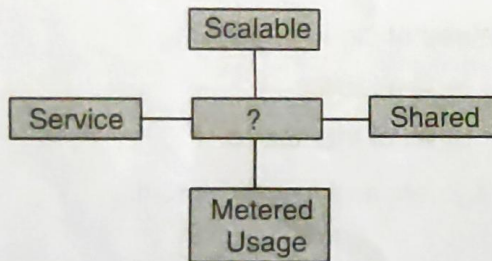
6) In which of the following service models the hardware is virtualized in the cloud ?

- a) NaaS
- b) PaaS
- c) CaaS
- d) IaaS

7) Point out the correct statement from the following :

- a) A client can request access to a cloud service from any location
- b) A cloud has multiple application instances and directs requests to an instance based on conditions
- c) Computers can be partitioned into a set of virtual machines with each machine being assigned a workload
- d) All of the mentioned

8) Which of the following should be replaced with the question mark in the following figure ?



- a) Abstraction
- b) Virtualization
- c) Mobility Pattern
- d) All of the mentioned

9) Pick the correct statement regarding Elasticity.

- a) Elasticity is used to meet the static increase in the workload
- b) Elasticity is a short-term planning and adopted just to deal with an unexpected increase in demand or seasonal demands
- c) Elasticity is not used to meet dynamic changes, where the resources need can increase or decrease
- d) Elasticity is a long-term planning and adopted just to deal with an expected increase in demand

10) \_\_\_\_\_ provide system resource access to virtual machines.

- a) VMM
- b) VMC
- c) VNM
- d) All of the mentioned





- 11) Select false statement from below.
- a) SOA provides the standards that transport the messages and makes the infrastructure to support it possible
  - b) SOA provides access to reusable Web services over an SMTP network
  - c) SOA offers access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs
  - d) None of the mentioned
- 12) TVMM is
- a) Trusted Virtual Machine Monitor
  - b) True Virtual Machine Monitor
  - c) Trusted Virtual Monitor Machine
  - d) True Virtual Monitor Machine
- 13) Cost, Reliability, Availability, aspect ratio, frame rate - these parameters refers to what ?
- a) Quality of Service
  - b) Stability
  - c) Maintainability
  - d) Service Integrity
- 14) Which of the following is essential concept related to cloud ?
- a) Abstraction
  - b) All the options
  - c) Productivity
  - d) Reliability
- 15) Point out the wrong statement.
- a) Some hypervisors are installed over an operating system and are referred to as type 2 or hosted VM
  - b) All CPUs support virtual machines
  - c) On a Type 2 VM, a software interface is created that emulates the devices with which a system would normally interact
  - d) All of the mentioned above
2. a) How many types of deployment models are used in cloud ? Explain deployment model in details. 10
- b) Discuss Software as a Service (SaaS) model. List its advantages. 7
3. a) Discuss Computing on Demand (CoD) in cloud environment. List the benefits and limitations of CoD. 7
- b) Explain the common types of cloud solutions that are offered on cloud. 10



4. a) With help of neat diagram, explain working of Virtual Desktop Infrastructure (VDI). 9
- b) Explain the flow of Information Life Cycle Management (ILM) in cloud offerings and list its objectives. 8

OR

5. a) What is Cloud Analytics ? Explain the working principle of Cloud Analytics. 10
- b) Write a short note on Information security in cloud service. 7
6. a) Explain the following term : 5
- i) Hypervisor
- ii) Hardware virtualization and OS virtualization.
- b) What is Network Attached Storage(NAS) ? Explain NAS protocols, NAS Interconnects and NAS Requirements. 12

OR

7. a) Explain following terms with respect to Cloud Server Virtualization : 10
- i) Datacenter Virtualization
- ii) Virtual Datacenter Management and Control
- iii) Dynamic Resource
- iv) High Availability.
- b) Write a short note on Storage Area Network. 7
8. a) Define Service Oriented Architecture(SOA). Briefly explain SOA life cycle highlighting Seven steps with a help of neat block diagram. 10
- b) List any 10 cloud performance monitoring commands and write syntax for ipcs cloud command showing ids and output format. 7

OR

9. a) Explain SOA and Infrastructure as a service working in cloud service. 9
- b) Define OLTP Benchmark, Business Intelligence Benchmark, ISV Benchmark and e-Business Benchmark in cloud computing. 8