Seat No.	

T.Y. (B.Tech.) (Sem - II) (New) (CBCS) Examination: March/April-2024
COMPUTER SCIENCE AND ENGINEERING
Cloud Computing (BTN03606)

Day & Date: Wednesday, 29-05-2024   Max. Marks: 70
Time: 03:00 PM To 06:00 PM

Instructions: 1) Q. No. 1 is compulsory. It should be solved in the first 30 minutes in answer bookpage no 03 (Starting page of the Answer Book). Each question carries one mark.
2) Don't forget to Mention question paper set (P/Q/R/S) on top of page.
3) Figures to the right indicates full marks.

MCQ/Objective Type Questions

Duration: 30 Minutes   Marks:14

Q.1 **Choose the correct alternatives from the options and rewrite the sentence.   14**

1) Offering virtualized resources (computation, storage and communication) on demand is known as _____.
   a) Software as a Service (SaaS)
   b) Platform as a Service (PaaS)
   c) Infrastructure as a Service (IaaS)
   d) None of the above

2) Which of the following is/are desired feature(s) of a cloud?
   a) per-usage metering and billing   b) elasticity
   c) self-service   d) all of the mentioned

3) _____ is the most complete cloud computing service model in which the computing hardware and software, as well as solution itself, are provided by a vendor as a complete service offering.
   a) Infrastructure-as-a-Service   b) Software-as-a-Service
   c) Platform-as-a-Service   d) None of these

4) The movement of a virtual machine from one physical host to another while being powered on is called _____.
   a) hot migration   b) cold migration
   c) live storage migration   d) None of these

5) Virtual machines (VM) can be provisioned by using which of the following options?
   a) by manually installing an operating system
   b) by using a preconfigured VM template
   c) by cloning an existing VM
   d) All of these

6) The fundamental unit of virtualized client in an IaaS deployment is called a _____.
   a) pod   b) silos
   c) workload   d) None of these

7) Which of the following is/are complementary and enabling technologies for open source cloud tools, which play an invaluable role in infrastructure as a service and in building private, public, and hybrid cloud architecture?
a) Eucalyptus
b) Open-Nebula
c) Both of these
d) None of these

8) _____ clouds have the advantage of keeping in-house the core business operations by relying on the existing IT infrastructure and reducing the burden of maintaining it once the cloud has been set up.
a) Public
b) Private
c) Both of these
d) None of these

9) _____ enables on-the-fly integration of local computational environments (data centers, grids) and public cloud services.
a) Autonomic cloudbursting
b) Autonomic cloudbridging
c) Autonomic latency
d) None of these

10) In the CometCloud architecture for autonomic cloudbursts, the _____ layer provides the basic framework for application development and management.
a) infrastructure
b) service
c) programming
d) None of these

11) The model with the least built-in security is the _____ model, where everything that involves software of any kind is the customer's problem.
a) SaaS
b) PaaS
c) IaaS
d) All of these

12) In order to evaluate the risks in any cloud deployment, which of the following analysis need to be performed?
a) Determine which resources are being planned to be moved to the cloud
b) Determine the sensitivity of the resource to risk
c) Determine the risk associated with the particular cloud type for a resource
d) All of these

13) _____ refers to the ability of a cloud provider to deliver software as-a-service solutions to multiple client organizations (or tenants) from a single, shared instance of the software.
a) Multithreading
b) Multiprogramming
c) Multi-tenancy
d) None of these

14) SLA stands for _____.
a) Server-Level Agreement
b) Service-Level Agreement
c) Server-Linked Agreement
d) Special-Level Agreement

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Day & Date: Wednesday, 29-05-2024   Max. Marks: 56
Time: 03:00 PM To 06:00 PM

Instructions: 1) All questions are compulsory.
                2) Figures to the right indicate full marks.

Section – I

Q.2 Solve Any Three.   **12**
   a) Explain the challenges and risks that must be considered to take good advantage of cloud computing.
   b) Write a short note on Virtual Machine Life Cycle.
   c) Explain the types of clouds based on deployment models.
   d) List and explain in short the SaaS characteristics.

Q.3 Solve Any Two.   **16**
   a) Describe in detail the different techniques of Virtual Machine Migration.
   b) Explain the different cloud computing services in detail.
   c) Describe pods, aggregation and silos using a suitable example and diagram.

Section – II

Q.4 Solve Any Three.   **12**
   a) Write a short note on Autonomic Cloudbursting using CometCloud.
   b) Describe in short the data privacy and security issues.
   c) Write a short note on Brokered cloud storage access.
   d) Explain in short the Aneka Resource Provisioning Service.

Q.5 Solve Any Two.   **16**
   a) Explain in detail the CometCloud architecture with a neat diagram.
   b) With the help of a suitable reference model, explain the Security service boundary in cloud computing
   c) Explain in detail the Jurisdictional Issues raised by Virtualization and Data Location.