Seat No.

B. Tech. (Computer Science and Engineering)
(Part - IV) (Semester - VII) (CBCS)
Examination, January - 2023
CLOUD COMPUTING
Sub. Code : 83857

Day and Date : Monday, 09 - 01 - 2023   **Total Marks: 70**
Time : 10.30 a.m. to 01.00 p.m.

Instructions: 1)   **All questions are compulsory.**
                2)   **Figures to the right indicate full marks.**
                3)   **Assume suitable data wherever necessary.**

Q1) Solve MCQs (1 Marks Each)

i)   Which computing architecture allows the user to use computers from multiple administrative domains to reach a common goal is called as

   a)   Cluster Computing   b)   Neural Networks

   c)   Parallel Processing   d)   Grid Computing

ii)   Cloud computing is a system _____ and it is unidirectional.

   a)   stateless   b)   stateful

   c)   fiable   d)   None of the above

iii)   _____ allows you to leverage the seemingly infinite compute resources of cloud infrastructure.

   a)   IaaS   b)   SaaS

   c)   CaaS   d)   PaaS

iv)   The example of IaaS service model.

   a)   Cloudera   b)   Azure

   c)   MIS   d)   All of above

v) Which of these is not a major type of cloud computing usage?

a) Platform as a Service   b) Software as a Service

c) Internet as a Service   d) Infrastructure as a Service

vi) Which of the following is the most sophisticated and restrictive service model?

a) SaaS   b) PaaS

c) IaaS   d) None of the above

vii) Which of the following provides development frameworks and control structures?

a) IaaS   b) SaaS

c) PaaS   d) All the answers are true

viii) Which of the following has three delivery models: Infrastructure as a Service, Platform as a Service, and Software as a Service,

a) cloud provider   b) cloud service

c) cloud enabler   d) None of the Above

ix) _____ cloud supports the utmost scalability and effectiveness for a business.

a) public   b) hybrid

c) private   d) All of the Above

x) _____ and _____ become major issues when cloud vendors have different platforms.

a) Performance and efficiency b) Backup and recovery

c) Portability and integration d) Integration and backup

xi) In _____ concept the data are separated from the actual desktop and stored on a server in a data centre.

a) Backup   b) Virtualisation

c) Media   d) None of above

xii) Find risk of cloud computing?

    a)   No troubleshooting issues   b)   Full control over the data

    c)   Storing data without control   d)   No government intrusion

xiii) Find out disadvantage of cloud?

    a)   No worries about running out of storage

    b)   Easier to maintain a cloud network

    c)   immediate access to computing resources

    d)   Paying only for what you use

xiv) What is private cloud?

    a)   A standard cloud service offered via the Internet

    b)   A cloud architecture maintained within an enterprise data center.

    c)   A cloud service inaccessible to anyone but the cultural elite

    d)   None of above

Q2) Solve any 2 of the following. (7 Marks Each)

    a.   Differentiate between Grid computing, cluster computing and cloud computing.

    b.   Describe role of networks in cloud computing.

    c.   Describe Paravirtualization.

Q3) Solve any 2 of the following (7 Marks Each).

    a)   Explain Evaluation of cloud computing.

    b)   Describe how cloud computing works.

    c)   Explain virtualization of memory and i/O devices level.

Q4) Solve any 2 of the following (7 Marks Each).

    a)   Explain Service Oriented Architecture (SOA).

    b)   Explain different levels present in cloud security.

    c)   Describe features of Google computing engine.

Q5) Solve any 2 of the following (7 Marks Each).

    a)   Explain Storage as a service.

    b)   Describe Host level cloud security.

    c)   What are the advantages of cloud foundry.

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Seat No.	

B. Tech. (Computer Science and Engineering) (Part - IV) (Semester - VII) (CBCS) Examination, March - 2023
CLOUD COMPUTING
Sub. Code : 83857

Day and Date : Friday, 16- 06- 2023　　　　　　　　　　**Total Marks : 70**
Time : 02.30 p.m. to 05.00 p.m.

Instructions:　　1)　**All questions are compulsory.**
　　　　　　　　2)　**Assume suitable data wherever necessary.**
　　　　　　　　3)　**Figures to the right indicate full marks.**

Q1) Solve MCQs.　　　　　　　　　　　　　　　　　　　(1 Mark Each)

　　i)　How many service models are primarily present in the Cloud?

　　　　a)　1　　　　　　　　　　　　b)　2

　　　　c)　3　　　　　　　　　　　　d)　4

　　ii)　_____ describes a distribution model in which applications are hosted by a service provider and made available to users.

　　　　a)　IAAS - Infrastructure-as-a-Service

　　　　b)　PaaS - Platform-as-a-Service

　　　　c)　SaaS - Software-as-a-Service

　　　　d)　All the answers are true

　　iii)　What is the IaaS service provider?

　　　　a)　EC2　　　　　　　　　　b)　EC1

　　　　c)　EC10　　　　　　　　　　d)　hybride

　　iv)　_____allows you to leverage the seemingly infinite compute resources of cloud infrastructure.

　　　　a)　IaaS　　　　　　　　　　b)　SaaS

　　　　c)　CaaS　　　　　　　　　　d)　PaaS

　　v)　Which of the following is a type of cloud computing service?

　　　　a)　Software-as-a-Service (SaaS)

　　　　b)　Software-and-a-Server (SaaS)

　　　　c)　Service-as-a-Software (SaaS)

　　　　d)　Software-as-a-Server (SaaS)

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vi) The example of IaaS service model.

    a) Cloudera   b) Azure

    c) AWS   d) All of above

vii) Google Apps is a suite of cloud computing _____ applications that includes e-mail (Gmail), Organizer (Google Calendar), Word Processing documents (Google Docs), and others.

    a) IaaS   b) PaaS

    c) SaaS   d) None of the Above

viii) Which of the following is among the primary uses of cloud computing?

    a) security   b) data storage

    c) data privacy   d) operational cost

ix) Which of these is not a major type of cloud computing usage?

    a) Platform as a Service   b) Software as a Service

    c) Internet as a Service   d) Infrastructure as a Service

x) _____ is a complete operating environment with a user interface and applications.

    a) IaaS   b) SaaS

    c) PaaS   d) All the answers are true

xi) _____ provides virtual machines, virtual storage, virtual infrastructure and other hardware assets.

    a) laaS   b) SaaS

    c) PaaS   d) All the answers are true

xii) Which of the following has three delivery models: Infrastructure as a Service, Platform as a Service and Software as a Service,

    a) cloud provider   b) cloud service

    c) cloud enabler   d) none of the Above

xiii) In a _____ cloud computing environment the organization itself provides and manages some resources locally and the remaining other resources provided externally.

    a) public   b) hybrid

    c) private   d) all of the Above

xiv) _____cloud supports the utmost scalability and effectiveness for a business.

    a) public   b) hybrid

    c) private   d) all of the Above

Q2) Solve any 2 of the following: (7 Marks Each)

   a) Explain characteristics of cloud computing.

   b) Explain Platform as a Services (PaaS).

   c) Explain benefits of virtualization.

Q3) Solve any 2 of the following: (7 Marks Each)

   a) Describe implementation levels of virtualization.

   b) Explain Infrastructure as a Services (IaaS).

   c) Differentiate between cloud computing and grid computing.

Q4) Solve any 2 of the following: (7 Marks Each)

   a) Describe different approach to virtualization.

   b) Explain case study Amazon EC2.

   c) Explain Service level Agreements (SLAs).

Q5) Solve any 2 of the following: (7 Marks Each)

   a) Describe features of Google computing engine.

   b) Explain Service Oriented Architecture (SOA).

   c) Explain data privacy and security issues in cloud computing.

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Fourth Year B. Tech. (Computer Science and Engineering) (Semester - VII) (CBCS) Examination, December - 2023
CLOUD COMPUTING
Sub. Code : 83857

Day and Date : Friday, 01- 12 - 2023　　　　　　**Total Marks : 70**
Time : 10.30 a.m. to 1.00 p.m.

Instructions :　1)　All Questions are compulsory.
　　　　　　　2)　Assume suitable data wherever necessary
　　　　　　　3)　Figures to the right indicate full marks.

Q1) Solve MCQ's. (1 Mark Each)　　　　　　　　　**[14×1=14]**

　a)　How many service models are primarily present in the Cloud?

　　　i)　1　　　　　　　　　　ii)　2

　　　iii)　3　　　　　　　　　iv)　4

　b)　_____ is a system of networked machine aggregation hardware where information is stored on multiple virtual servers, rather than being hosted on a single hard server.

　　　i)　Cloud　　　　　　　ii)　Cloud storage

　　　iii)　Cloud Service　　　iv)　None of the above

　c)　Which VMs does not simulate the uderlaying hardware.

　　　i)　Hardware-Assisted Virtualization

　　　ii)　Full Virtualization

　　　iii)　Para Virtualization

　　　iv)　Network Virtualization

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d) Which service is a cloud computing infrastructure that creates a development environment upon which application may be build.

   i) Infrastructure   ii) Platform

   iii) Service   iv) All of above

e) Which of the following is among the primary uses of cloud computing?

   i) Security   ii) Data storage

   iii) Data privacy   iv) Operational cost

f) Which of the following service providers offers less security?

   i) SaaS   ii) PaaS

   iii) IaaS   iv) None of the above

g) Which of the following provides development frameworks and control structures?

   i) IaaS   ii) SaaS

   iii) PaaS   iv) All the answers are true

h) Which of the following has three delivery models: Infrastructure as a Service, Platform as a Service, and Software as a Service.

   i) Cloud provider   ii) Cloud service

   iii) Cloud enabler   iv) None of the above

i) Which of the following is the deployment model?

   i) Public   ii) Private

   iii) Hybrid   iv) All of the mentioned

j) _____ group focuses on standards and standards-based architecture for sharing information between clouds.

    i) Working Group on Information Sharing

    ii) Security

    iii) Clouds

    iv) All above

k) Cloud storage service allows storing remotely made available locally.

    i) True   ii) False

l) In _____ concept the data are separated from the actual desktop and stored on a server in a data centre.

    i) Backup   ii) Virtualisation

    iii) Media   iv) None of above

m) Find risk of cloud computing?

    i) No troubleshooting issues   ii) Full control over the data

    iii) Storing data without control   iv) No government intrusion

n) Find out disadvantage of cloud?

    i) No worries about running out of storage

    ii) Easier to maintain a cloud network

    iii) Immediate access to computing resources

    iv) Paying only for what you use

Q2) Solve any 2 of the following. (7 Marks Each)   **[2×7=14]**

a)   Describe Pros and Cons of cloud computing.

b)   What are deployment models in cloud?

c)   Explain binary translation with full virtualization.

Q3) Solve any 2 of the following.   **[2×7=14]**

a)   Explain recent trends in computing.

b)   Explain role of web services.

c)   Explain virtualization at the OS level.

Q4) Solve any 2 of the following.   **[2×7=14]**

a)   Explain virtualization resources.

b)   Explain how data authentication done in cloud computing.

c)   Explain case study OpenStack.

Q5) Solve any 2 of the following.   **[2×7=14]**

a)   Explain Hypervisors.

b)   How cloud manage large scale data processing.

c)   What are the advantages of Microsoft azure platform.

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