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திருப்பனந்தாள் – 612504

S.K.S.S ARTS COLLEGE, THIRUPPANANDAL - 612504

QUESTION BANK

Title of the Paper

CLOUD COMPUTING

Course: III B.C.A
Sub. Code: 16SMBECA2:1
Semester: VI

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DEPARTMENT OF COMPUTER SCIENCE

SEMESTER-VI
MAJOR BASED ELECTIVE II (B)
CLOUD COMPUTING

Unit I

Cloud Computing Foundation : Introduction to Cloud Computing
– Move to Cloud Computing – Types of Cloud – Working of Cloud Computing.

Unit II

Cloud Computing Architecture : Cloud Computing Technology –
Cloud Architecture – Cloud Modeling and Design - Virtualization : Foundation – Grid,Cloud and
Virtualization – Virtualization and Cloud Computing.
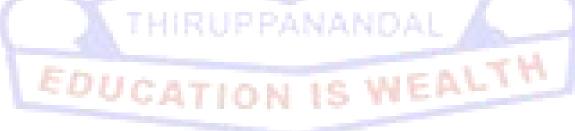
Unit III

Data Storage and Cloud Computing : Data Storage – Cloud Storage – Cloud Storage from
LANs to WANs – Cloud Computing Services : Cloud Services – Cloud Computing at Work.

Unit IV

Cloud Computing and Security : Risks in Cloud Computing – Data Security in Cloud – Cloud
Security Services – Cloud Computing Tools : Tools and Technologies for Cloud – Cloud
Mashaps – Apache Hadoop – Cloud Tools.

Unit V

Cloud Applications – Moving Applications to the Cloud – Microsoft Cloud Services – Google
Cloud Applications – Amazon Cloud Services – Cloud Applications

UNIT – I
Choose the Correct Answer

1. What is Cloud Computing replacing?
   A. Corporate data centers
   B. Expensive personal computer hardware
   C. Expensive software upgrades
   D. All of the above

2. What is the number one concern about Cloud Computing?
   A. Too expensive
   B. Security concerns
   C. Too many platforms
   D. Accessibility

3. Which one of these is not a Cloud Computing pricing model?
   A. Free
   B. Pay Per Use
   C. Subscription
   D. Ladder

4. Which of these is not a major type of Cloud Computing usage
   A. Hardware as a Service
   B. Platform as a Service
   C. Software as a Service
   D. Infrastructure as a Service

5. An Internet connection is necessary for Cloud Computing interaction.
   A. True
   B. False
   C. Sometimes
   D. Always

6. "Cloud" in cloud computing represents what?
   A. Wireless
   B. Hard drives
   C. People
   D. Internet

7. What exactly is Cloud Computing?
   A. A way to organize desktop computers
   B. Lightweight software that takes up little space on a hard drive
   C. Computing resources accessed on demand, like electricity from a utility
   D. The World Wide Web

8. Cloud Computing embraces many concepts that were previously touted as the next big thing in information technology. Which of these is not an antecedent of the cloud?
   A. Software as a service
   B. Remote hosted services
   C. Grid computing
   D. Desktop computing

9. The term "Cloud Computing" is a metaphor that originated in what?
   A. Graphical depiction of computer architectures
   B. Meteorological symbolism
   C. Worries about an unclear future for computing architectures
   D. The idea that computer users trust in magic

10. Which of the architectural layer is used as front end in cloud computing?
   A. Client
   B. Cloud
   C. Soft
   D. All the Mentioned.

ANSWERS : 1.D   2.B   3.D   4.A   5.A   6.D   7.C   8.D   9.A   10.A

Short Questions (2 marks)
11. What is cloud computing?
12. What are the benefits of cloud computing?
13. What is SAAS?
14. What are the different types of cloud computing?
15. Write down any four features of cloud computing
16. What is PAAS?
17. What is IAAS?
18. What is hybrid cloud?
19. What are the advantages of using Cloud Computing?
20. What is grid computing?

Paragraph Questions (5 marks)

21. Define cloud computing? List out characteristics of cloud computing.
22. Explain Cloud Architecture.
23. Describe the types of Cloud.
24. Explain about platform as a Service (PaaS).
25. Distinguish between Public Cloud and Private Cloud.
26. Explain about Infrastructure as a Service (IaaS).
27. Explain in detail software-as-a-service.
28. Discuss the History of cloud computing.
29. Explain Advantages of cloud computing in IT field.
30. Write short notes on Migrating into cloud.

Essay Type Questions (10 Marks)

31. Explain briefly about various cloud services and their major providers.
32. Write and explain the Cloud echo system.
33. Explain Move to Cloud Computing.
34. Explain Pros and Cons of cloud computing.
35. Describe the types of cloud computing with examples.
36. Explain related technologies into cloud computing.
37. Explain key characteristics of cloud and its role.
38. Write detailed notes on cloud application architecture.
39. Explain trends in cloud computing.
40. Describe cloud migration.

Unit – II
Choose the Correct Answer

1. Which of these techniques is vital for creating cloud-computing centers?
   A. Virtualization
   B. Transubstantiation
   C. Cannibalization
   D. Insubordination

2. An internal cloud is…
   A. An overhanging threat

B. A career risk for a CIO
C. A cloud that sits behind a corporate firewall
D. The group of knowledge workers who use a social network for water-cooler gossip

3. Which of the following component is called hypervisor?
   A. VMS
   B. VMC
   C. VMM
   D. All of the mentioned.

4. What facet of cloud computing helps to guard against downtime and determines costs?
   A. Service-level agreements
   B. Application programming interfaces
   C. Virtual private networks
   D. Bandwidth fees

5. What's the most popular use case for public cloud computing today?
   A. Test and development
   B. Website hosting
   C. Disaster recovery
   D. Business analytics

6. Virtual Machine Ware (VMware) is an example of
   A. Infrastructure Service
   B. Platform Service
   C. Software Service
   D.Hardware Services

7. Cloud Service consists of
   A. Platform, Software, Infrastructure
   B. Software, Hardware, Infrastructure
   C. Platform, Hardware, Infrastructure
   D. Software, Service, Hardware

8. In order to participate in cloud-computing, you must be using the following OS
   A. Windows
   B. Mac OS
   C. Linux
   D. All of the above

9. 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. A cloud managed by government authorities

10. "Cloud" in cloud computing represents what?
    A. Wireless
    B. Hard drives
    C. People
    D. Internet

   ANSWERS: 1.A   2.C   3.C   4.A   5.A   6.A   7.A   8.D   9.B   10.D

Short Questions (2 marks)

11. What is virtualization?
12. Type of virtualization.

13. Define quality assurance in cloud.
14. Define echo system model.
15. Explain cloud business tier.
16. What is combined cloud?
17. Define ERMS.
18. What is desktop virtualization?
19. Define storage virtualization.
20. What is deployment model?

Paragraph Questions (5 marks)

21. Explain Single Cloud Site Architecture.
22. Discuss Requirement Analysis.
23. Write note on application virtualization.
24. Describe types of virtualization.
25. Explain phases of CDLC.
26. Discuss cloud operating system tier.
27. Explain SOA and cloud governance.
28. Describe network virtualization.
29. Explain storage virtualization.
30. Explain deployment model of cloud computing.

Essay Type Questions (10 Marks)

31. Explain cloud life cycle model.
32. Describe cloud modeling and designing in detail.
33. Define virtualization. Brief on the types of virtualization.
34. Explain role of cloud modeling and architecture.
35. Discuss about developing holistic cloud computing in detail.
36. Write and Explain cloud eco system model.
37. Explain three tier architecture.
38. Explain cloud computing basic principles.
39. Write detailed notes on benefits of storage virtualization.
40. Explain anatomy of cloud infrastructure.

Unit – III
Choose the Correct Answer

1. What is the most basic level of storage
   A. SAN
   B. DAS
   C. NAS
   D. ISCSI

2. A NAS solution is most appropriate for what type of data environment
   A. Secured Access
   B. Shared access
   C. Remote access
   D. Parallel access

3. This is a method of reducing storage needs by eliminating redundant data
   A. Data snapshot
   B. Data compression
   C. Data encryption
   D. Data De-duplication

4. This is a feature of storage security that is gaining favor among enterprises that use storage area networks (SANs)
   A. Data Protection
   B. Data de-duplication
   C. Storage encryption
   D. Data compression

5. Benefits of ghost FS
   A. High source
   B. No administration
   C. Any where
   D. All the above

6. Which demon is responsible for replication of data in Hadoop
   A. HDFS
   B. Task Tracker
   C. Job Tracker
   D. Name Node

7. Which one of the following is not an cloud storage company?
   A. PCLOUD
   B. DROPBOX
   C. IDRIVE
   D. PIXAR

8. Which is not a valid file system
   A. FXZ
   B. FAT 16
   C. FAT 32
   D. NTFS

9. Without this practice, backing up data is virtually useless
   A. Data Archival
   B. Data Retrieval
   C. Data quality assurance
   D. Data Recovery

10. What are the major benefits of SAN?
    A. Centralized backup
    B. Storage consolidation
    C. LAN-less backup
    D. All of the mentioned

   Answers: 1.B 2.B 3.D 4.C 5.D 6.D 7.D 8.A 9.B 10.D

Short Questions (2 marks)

11. What is massive data demand?
12. What is direct attached storage (DAS)?
13. Define ghost file system.
14. What is Bigtable?
15. Define HBase.
16. Explain KDI.
17. Define QoS.
18. What is SAN?
19. What amazon dynamo?
20. Define network attached storage (NAS)

Paragraph Questions (5 marks)

21. Explain Data Storage Management.
22. Explain overview of cloud storage.
23. How does cloud storage work? Explain.
24. Explain the Cloud File Systems in detail.
25. List and explain various storage models of file systems and data base?
26. Explain cloud data management interface.
27. Explain cloud computing elements.
28. Discuss about cloud storage requirements.
29. Explain service-based model.
30. Explain features of ghost file system.

Essay Type Questions (10 Marks)

31. Explain the FAT File System.
32. Discuss about management and administrative services.
33. Explain cloud storage from LANs to WANs.
34. Explain cloud computing at work.
35. Give details about cloud storage requirement.
36. Explain distributed data storage.
37. Write detailed notes on resource pooling and multi-tenancy.
38. Explain Types of data storage.
39. Write note on data protection and availability.
40. Explain application utilizing cloud storage online file system.

Unit – IV
Choose the Correct Answer

1. What August event was widely seen as an example of the risky nature of cloud computing?
   A. Spread of Conficker virus
   B. Gmail outage for more than an hour
   C. Theft of identities over the Internet
   D. Power outages in the Midwest

2. What is the name of the organization helping to foster security standards for cloud computing?
   A. Cloud Security Standards Working Group
   B. Cloud Security Alliance
   C. Cloud Security WatchDog
   D. Security in the Cloud Alliance

3. Which of these companies specializes in cloud computing management tools and services?
   A. RightScale
   B. Google
   C. Salesforce.com
   D. Savis

4. Which of the following area of cloud computing is uniquely troublesome?
   A. Auditing
   B. Data Integrity
   C. E-Discovery for legal compliance

D. All of the above

5. What is the number one concern about cloud computing?
   A. Accessibility
   B. Too expensive
   C. Security concerns
   D. Too many platforms

6. How many categories of storage devices broadly exist in the cloud?
   A. 2
   B. 1
   C. 4
   D. 3

7. Communication between services is done widely using _____ protocol
   A. REST
   B. SOAP
   C. RESTful
   D. None of the method

8. What are the advantages of 3x replication schema in Hadoop
   A. Fault tolerance
   B. High availability
   C. Reliability
   D. All of the above

9. Which of the following model allows vendor to provide security as part of the Service Level Agreement?
   A. SaaS
   B. PaaS
   C. IaaS
   D. None Of these

10. All the following accurately describe Hadoop, EXCEPT:
    A. Open source
    B. Java-based
    C. Distributed computing approach
    D. Real-time

Answer: 1.B 2.B 3.A 4.D 5.C 6.A 7.B 8.D 9.A 10.D

Short Questions (2 marks)

11. Define two kinds of cloud computing providers.
12. What is data loss?
13. Explain Levels of cloud.
14. Define logging.
15. Define data centralization.
16. Explain homo sapiens.
17. Define DRP.
18. What is CLS?
19. What is parallel computing?
20. Define apache Hadoop.

Paragraph Questions (5 marks)

21. Discuss about the workflow management system.

22. Explain the data security in the cloud.
23. Types of risks in cloud computing.
24. Describe the cloud security services.
25. Explain about cloud mashup.
26. Explain apache Hadoop.
27. Discuss security disadvantage in cloud environment.
28. Explain two prime mechanisms for client access.
29. Explain general model for application platform.
30. Describe Control level security (CLS).

Essay Type Questions (10 Marks)

31. Discuss the risks in cloud computing.
32. Explain the tools and technologies of cloud.
33. Write note on cloud security services.
34. Discuss about cloud tools in detail.
35. Explain the Risk management process.
36. Explain the cloud computing platform.
37. Give detailed notes on Levels of cloud computing.
38. Describe about cloud computing application platform.
39. Explain the components eucalyptus.
40. Explain the security disadvantage in cloud environment.

Unit – V
Choose the Correct Answer

1. Which of these companies is not a leader in cloud computing?
   A. Google
   B. Amazon
   C. Blackboard
   D. Microsoft

2. What is Google's event-driven serverless compute platform?
   A. Google Cloud Functions
   B. Google Kubernetes Engine (GKE) On-Prem
   C. Google App Engine
   D. Knative

3. Point out the correct statement.
   A. Amazon Elastic Cloud is a system for creating virtual disks(volume)
   B. SimpleDB interoperates with both Amazon EC2 and Amazon S3
   C. EC3 is an Analytics as a Service provider
   D. None of the mentioned

4. Which is not a major cloud computing platform?
   A. Google 101
   B. IBM Deep blue
   C. Microsoft Azure
   D. Amazon EC2

5. Which of these should a company consider before implementing cloud computing technology?
   A. Employee satisfaction
   B. Potential cost reduction
   C. Information sensitivity
   D. All of the above

6. Which of the following is not a google cloud application?
   A. Gmail
   B. Google calender
   C. Google docs
   D. Google play music

7. Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3?
   A. CloudWatch
   B. Amazon SimpleDB
   C. Amazon Cloudfront
   D. All of the mentioned

8. 5. What is the name of Rackspace's cloud service?
   A. Cloud On-Demand
   B. Cloud Servers
   C. EC2
   D.Amazon S3

9. Google Apps Engine is a type of
   A. SaaS
   B. PaaS
   C. IaaS
   D. NA

10. Amazon Web Services is which type of cloud computing distribution model?
   A. Software as a Service
   B. Platform as a Service
   C. Infrastructure as a Service
   D. Hardware as a Service

ANSWERS : 1.C 2.A 3.B 4.B 5.D 6.D 7.B 8.B 9.D 10.C

Short Questions (2 marks)

11. Define Enterprise growth.
12. What is CRM?
13. Define Web hosting.
14. What is batch processing?
15. Explain windows azure.
16. Write any four Google Cloud application.
17. What is AWS?
18. Define Elasticity Cloud Computing.
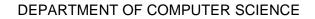**19.** Define Amazon S3.
20. Define yahoo Zimbra.

Paragraph Questions (5 marks)

21. Explain the Amazon Web Service.
22. Write short notes on Google Cloud Application.
23. Explain in detail about Google File System (GFS) Architecture.
24. Explain about Microsoft Windows Azure.
25. Describe Business opportunities using Cloud.
26. Discuss Application shifted to the Cloud.
27. Explain Google Groups.
28. Describe Amazon Cloud watch.
29. Explain Cloud Computing services.
30. Explain Hedge capital utilizing cloud computing.

Essay Type Questions (10 Marks)

31. Explain about Amazon simple storage service (S3).
32. Explain in detail about Amazon EC2 along with its associated services provided by Amazon.
33. Describe Google App Engine in detail.
34. Explain moving application into cloud.
35. Write note on Cloud Application.
36. Explain Microsoft Cloud services.
37. Discuss about Google Cloud Application.
38. Explain Amazon Machine image and interface.
39. Describe Cloud software for private banking.
40. Explain Cloud Software for Asset management.