Study material provided by: Vishwajeet Londhe

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[5870]-1138

T.E. (Computer Engg.)
CLOUD COMPUTING
(2019 Pattern) (Semester-II) (Elective II) (310254 C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6. Q.7 or Q.8.*
2) *Neat diagrams must be drawn wherver necessary*
3) *Figures to the right side indicate full marks.*
4) *Assume Suitable data, if necessary.*

Q1) a) Define Virtualization? Explain different types of Virtualizations? **[8]**

b) Discuss Virtualization in Grid and Virtualization in Cloud? **[9]**

OR

Q2) a) Differentiate between full and para virtualization? **[8]**

b) Explain the functionality of hypervisor? What is typel and type 2 hypervisor? **[9]**

Q3) a) Enlist the different services offered by Amazon web Service? Explain it? **[8]**

b) Discuss Amazon Dynamo Database Service in detail? **[9]**

OR

Q4) a) Explain Microsoft Windows Azure Platform? **[8]**

b) Elaborate the unique features Google App Engine with suitable example? **[9]**

Q5) a) Discuss the various Cloud Security Services with its necessity? **[9]**

b) What are different risks in cloud computing and how to mange them?**[9]**

OR

Q6) a) Explain security authorization challenges in cloud computing? **[9]**

b) Discuss how we need to perform secure cloud software testing? **[9]**

Q7) a) Discuss Energy Aware Cloud Computing with suitable example? **[9]**

b) Explain with example, working of Docker? **[9]**

OR

Q8) a) How the Cloud and IoT together works for Home Automation? **[9]**

b) Differentiate Distributed Cloud Computing Vs Edge Computing? **[9]**

[5926]-70

T.E. (Computer Engineering)
CLOUD COMPUTING
(2019 Pattern) (Semester - II) (Elective-II) (310254C)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary*

Q1) a) Describe CPU, Network and Storage Virtualization?   **[9]**

   b) Draw and Explain the Virtualization Architecture in detail?   **[8]**

OR

Q2) a) Define Virtualization? Explain defferent types of Virtualizations?   **[9]**

   b) Differentiate between Virtualization in Grid and Virtualization in Cloud **[8]**

Q3) a) What are the components of Microsoft Azure? Explain briefly?   **[9]**

   b) How cloud computing can be used for business and consumer applications like ERP or CRM?   **[8]**

OR

Q4) a) Describe the Amazon Database Services?   **[8]**

   b) Explain Google Cloud Applications in detail?   **[9]**

Q5) a) What are the security issues of cloud computing identified by cloud security alliance (CSA)? Explain any three in detail?   **[9]**

   b) How Trusted Cloud Computing can be used to manage the risk and security in a cloud?   **[9]**

OR

P.T.O.

Q6) a) Explain the six step risk management processes? **[9]**

b) Describe how to perform Secure Cloud Software Testing? **[9]**

Q7) a) What do you mean by IoT Cloud?And how IoT cloud can be used in home automation? **[9]**

b) Explain architecture and working of Kubernetes. **[9]**

OR

Q8) a) What are the future trends in cloud computing? Explain in brief? **[9]**

b) Differentiate between Distributed Cloud Computing Vs Edge Computing?**[9]**

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T.E. (Computer Engineering/A.I.D.S.)
CLOUD COMPUTING
(2019 Pattern) (Semester-II) (Elective II) (310254 C)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Solve Q.1 or Q.2, Q.3or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Differentiate between grid computing and cloud computing?   **[9]**

   b) Define virtualizations? Explain the advantages and disadvantages of Virtualization?   **[8]**

OR

Q2) a) Describe virtual clustering in cloud computing?   **[9]**

   b) Explain the importance of hypervisor in cloud computing? Compare Type 1 and Type 2 hypervisor?   **[8]**

Q3) a) Enlist an applications of cloud computing in differnt Area? Describe any two applications?   **[9]**

   b) Explain the different components of AWS?   **[8]**

OR

Q4) a) How the Amazon simple storage service (S3) works? Explain with suitable diagram?   **[8]**

   b) Enlist the steps for configuring Amazon EC2 VM instance?   **[9]**

Q5) a) What are the different types of testing in cloud computing? Explain briefly?   **[9]**

   b) Explain the different types of security risk involved in cloud computing?   **[9]**

OR

P.T.O.

Q6) a) Describe the different Cloud Security Services in detail? **[9]**

b) State the use of Content Level Security (CLS)? **[9]**

Q7) a) Describe client-server architecture of docker? **[9]**

b) Explain Mobile Cloud in detail? **[9]**

OR

Q8) a) Differentiate between Distributed Cloud Computing Vs Edge Computing? **[9]**

b) Explain the concept of DevOps in detail? **[9]**

[6180]-58

T.E. (Computer/A.I & D.S)
CLOUD COMPUTING
(2019 Pattern) (Semester - II) (310254 C) (Elective - II)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1)   *Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 orQ. 6, Q. 7 orQ. 8.*
2)   *Neat diagrams must be drawn wherever necessary.*
3)   *Figures to the right indicate full marks.*
4)   *Assume suitable data, if necessary.*

Q1) a)   Explain virtual clustering in cloud computing?   **[9]**

b)   Describe the importance of hypervisor in cloud computing? Differentiate Type I and Type 2 hypervisor?   **[8]**

OR

Q2) a)   Compare grid computing and cloud computing?   **[9]**

b)   Define virtualizations? Describe the advantages and disadvantages of Virtualization?   **[8]**

Q3) a)   Draw & explain the working of Amazon simple storage service(S3)? **[9]**

b)   Describe the different steps for configuring Amazon EC2 VM instance?**[8]**

OR

Q4) a)   Enlist an applications of cloud computing in different Area? Describe any two applications?   **[8]**

b)   Identify the different components of AWS?   **[9]**

P.T.O.

Q5) a) Explain the different Cloud Security Services in detail? **[9]**

b) State the use of Content Level Security (CLS)? **[9]**

OR

Q6) a) What are the different types of testing in cloud computing? Explain briefly? **[9]**

b) Analyze the different types of security risk involved in cloud computing? **[9]**

Q7) a) Draw & Explain client - server architecture of docker? **[9]**

b) Explain Multimedia Cloud in detail? **[9]**

OR

Q8) a) Differentiate between Distributed Cloud Computing Vs Edge Computing? **[9]**

b) Describe the concept of DevOps in detail? **[9]**

[6262]-48

T.E. (Computer / Artificial Intelligence and Data Science Engineering)

CLOUD COMPUTING

(2019 Pattern) (Semester - II) (310254C) (Elective-II)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

   1)   *Attempt Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6, Q. 7or Q.8.*

   2)   *Figures to the right indicate full marks.*

   3)   *Neat diagram must be drawn wherever necessary.*

   4)   *Assume suitable data if necessary.*

Q1) a)   What is virtualization? What is Type 1 Hypervisor and Type 2 Hypervisor?   **[6]**

     b)   Explain Virtual clustering in detail?   **[6]**

     c)   Explain Virtualization in grid computing?   **[6]**

OR

Q2) a)   Explain Virtualization Application and Pitfalls of Virtualization?   **[6]**

     b)   Explain Network and Storage Virtualization?   **[6]**

     c)   Explain virtual machine migration technique in detail?   **[6]**

Q3) a)   What is AWS? What are the services provided by AWS?   **[6]**

     b)   Explain amazon S3 and Amazon EC2?   **[6]**

     c)   Explain SQL Azure in detail?   **[5]**

OR

Q4) a)   Explain Google App Engine with its installation steps?   **[6]**

     b)   Draw and explain Architecture of Amazon Dynamo?   **[6]**

     c)   Differentiate between Dynamo DB and Amazon S3?   **[5]**

Q5) a) What is role of Confidentiality, Integrity and Availability in Cloud Computing? **[6]**

b) Explain types of Risks in Cloud Computing? **[6]**

c) Explain the secure cloud software testing? **[6]**

OR

Q6) a) Explain the cloud security services in details? **[6]**

b) Write a short note on content level security? **[6]**

c) Compare server side and client-side encryption? **[6]**

Q7) a) Explain the mobile cloud computing? **[6]**

b) Explain docker with its Architecture? **[6]**

c) Explain the application of IOT and cloud in your home? **[5]**

OR

Q8) a) What is Energy aware cloud computing? Explain in details? **[6]**

b) Explain container & Kubernetes in detail? **[6]**

c) Explain Distributed cloud computing? **[5]**

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