P817

[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 type1 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]**

P.T.O.

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

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

<div align="center">OR</div>

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]**

<div align="center">OR</div>

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]**