

**SRM VALLIAMMAI ENGINEERING COLLEGE**

**(An Autonomous Institution)**

SRM Nagar, Kattankulathur – 603 203

**DEPARTMENT OF CYBER SECURITY**

**QUESTION BANK**



**VI SEMESTER**

**1923603 – SECURITY IN CLOUD COMPUTING**

**Regulation – 2019**

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*Prepared by*

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**SUBJECT: 1923603 – SECURITY IN CLOUD COMPUTING****SEM/YEAR: VI / III****UNIT I - INTRODUCTION & ARCHITECTURAL FRAMEWORK**

Basics of distributed concepts, Grid computing: Architecture – Virtual organization – Web services vs grid services, Grid vs cloud computing, Roots of cloud computing, Essential Characteristics. SPI framework, Cloud deployment models: Public cloud – Private cloud – Hybrid cloud, Expected benefits.

**PART – A**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | Identify Distributed Computing and its features  | BTL3         | Applying          |
| 2           | Point out the properties of Distributed Computing.   | BTL4         | Analyzing         |
| 3           | What is Middleware?  | BTL1         | Remembering       |
| 4           | Discuss about NOW Configuration.   | BTL2         | Understanding     |
| 5           | Outline the advantages of Distributed Computing.   | BTL2         | Understanding     |
| 6           | Explain with an example how Distributed Computing resolves the issue of geographical separation. | BTL1         | Remembering       |
| 7           | Define Message passing.  | BTL1         | Remembering       |
| 8           | Recall the term Grid Computing.  | BTL1         | Remembering       |
| 9           | Explain Parallel Computing. Where is it used?  | BTL2         | Understanding     |
| 10          | Define Resource Broker.  | BTL1         | Remembering       |
| 11          | Generalize your view about Virtual Organization.   | BTL6         | Creating          |
| 12          | Infer the advantages and disadvantages of Grid Computing.  | BTL4         | Analyzing         |
| 13          | Identify how webservice works?   | BTL3         | Applying          |
| 14          | Define Webservice.   | BTL2         | Understanding     |
| 15          | Show the components of Webservice  | BTL3         | Applying          |
| 16          | Assess the term Cloud Computing.   | BTL5         | Evaluating        |
| 17          | List the Roots of Cloud Computing.   | BTL1         | Remembering       |
| 18          | Point out some examples of IaaS Cloud service.   | BTL4         | Analyzing         |
| 19          | Discuss SPI Framework.   | BTL6         | Creating          |
| 20          | Assess whether Netflix comes under SaaS cloud service.   | BTL5         | Evaluating        |
| 21          | Identify why Cloud Computing is termed as pay per use model.                                     | BTL3         | Applying          |
| 22          | What is Web 2.0?   | BTL2         | Understanding     |
| 23          | Differentiate between Cloud Computing and Grid Computing.  | BTL4         | Analyzing         |
| 24          | Explain the benefits of SaaS Model.  | BTL5         | Evaluating        |

**PART – B**

| <b>Q.No</b> | <b>Question</b>   | <b>Level</b> | <b>Competence</b> |
|-------------|---|--------------|-------------------|
| 1           | Explain the properties of Distributed Computing with Illustration. (13)                             | BTL1         | Remembering       |
| 2           | With the help of a neat architecture diagram explain Distributed Computing.(13)                     | BTL1         | Remembering       |
| 3           | Describe in detail about the working of Grid Computing.(13)   | BTL1         | Remembering       |
| 4           | (i) Describe about Virtual Organization.(7)<br>(ii) Difference between Grid and Cloud Computing (6) | BTL2         | Understanding     |
| 5           | List the components of Grid Computing.(13)  | BTL2         | Understanding     |

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|----|--|-------|---------------|
| 6  | Describe in detail about Webservice and its working with an example. (13)  | BTL1  | Remembering   |
| 7  | Examine about the roots of cloud computing and explain them in brief.(13)  | BTL3  | Applying      |
| 8  | Explain the following:<br>i) Saas. (7)<br>ii) Characteristics of Cloud Computing. (6)  | BTL4  | Analyzing     |
| 9  | Explain in detail about Elasticity in Cloud and On-demand Provisioning. (13)   | BTL4  | Analyzing     |
| 10 | Explain the term – Community Cloud. (13)   | BTL2  | Understanding |
| 11 | Compare and contrast the cloud deployment models.  | BTL3  | Applying      |
| 12 | Suggest a suitable deployment Model for Mr.Arun and team. They are owning a company and Ms.Ramya is joining their team from Australia. The team wants to know a suitable deployment model for them to build the application. They aren't having any tools, software to build. They need to build the work from scratch. (13) | BTL6  | Creating      |
| 13 | Draw and explain the architecture of Cloud. (13)   | BTL 5 | Evaluating    |
| 14 | Analyze and explain Saas and Iaas framework with example. (13)   | BTL4  | Analyzing     |
| 15 | Briefly explain SPI Framework. (13)  | BTL2  | Understanding |
| 16 | Compare and contrast Private and Public Cloud. (13)  | BTL3  | Applying      |
| 17 | Define Hybrid cloud and explain in detail. (13)  | BTL 5 | Evaluating    |

### PART - C

| Q.No | Question  | Level | Competence |
|------|---|-------|------------|
| 1    | Explain Distributed Computing in detail. (15)   | BTL5  | Evaluating |
| 2    | Discuss Grid Computing in detail. (15)  | BTL6  | Creating   |
| 3    | Discuss Cloud Computing in Detail. (15)   | BTL6  | Creating   |
| 4    | Explain what is SPI Framework, and its types in brief.                                | BTL5  | Evaluating |
| 5    | With the help of a neat block diagram explain the basic Cloud Deployment Models? (15) | BTL5  | Evaluating |

## UNIT II - CLOUD COMPUTING SECURITY CHALLENGES

Security Policy Implementation, Policy Types, Senior Management Statement of Policy, Regulatory Policies, Advisory Policies, Informative Policies, Computer Security Incident Response Team (CSIRT), Virtualization Security Management, Virtual Threats, Hypervisor Risks, Increased Denial of Service Risk, Securing VM Remote Access.

### PART – A

| Q.No | Question   | Level | Competence    |
|------|--|-------|---------------|
| 1    | What are the general management processes that are required regardless of the nature of the organization's business? | BTL1  | Remembering   |
| 2    | Analyze the term Policy.   | BTL4  | Analyzing     |
| 3    | what are the types of policies?  | BTL2  | Understanding |
| 4    | what are advisory Policies?  | BTL1  | Remembering   |
| 5    | what are regulatory Policies?  | BTL5  | Evaluating    |
| 6    | Define the main tasks in CERT.   | BTL2  | Understanding |
| 7    | Discuss the need for Incident handling.  | BTL6  | Creating      |
| 8    | What are the roles that the administrators are configured in vms?  | BTL1  | Remembering   |
| 9    | Give the types of Virtual Environments.  | BTL2  | Understanding |
| 10   | How do you drop triggers?  | BTL1  | Remembering   |
| 11   | Mention some of the vulnerabilities that are exposed to any malicious-minded individuals.                            | BTL6  | Creating      |
| 12   | Give an example of Advisory policy.  | BTL3  | Applying      |
| 13   | How can be vulnerability/threat matrix classified?   | BTL4  | Analyzing     |
| 14   | What is a Hypervisor?  | BTL1  | Remembering   |
| 15   | What is VM Escape  | BTL3  | Applying      |
| 16   | What can attackers do if they get physical access to the host?   | BTL5  | Evaluating    |
| 17   | What are the seven best security implementation techniques that are required?  | BTL1  | Remembering   |
| 18   | Mention some of the hardening techniques that must be implemented to maintain the security posture .                 | BTL2  | Understanding |
| 19   | What is attack surface?  | BTL3  | Applying      |
| 20   | Mention the steps involved in hardening the virtual machine?   | BTL4  | Analyzing     |
| 21   | When can a VM monitor be root secure?  | BTL4  | Analyzing     |
| 22   | What are the standard practices for remote administration?   | BTL 3 | Applying      |
| 23   | Mention some of the recommendations for hardening virtualized systems by Tavis Ormandy.                              | BTL5  | Evaluating    |
| 24   | With a neat labeled diagram show how the policies relate to each other hierarchically.                               | BTL 2 | Understanding |

### PART – B

| Q.No | Question  | Level | Competence    |
|------|---|-------|---------------|
| 1    | Explain about security policy implementation and show how it relates to each other. | BTL1  | Remembering   |
| 2    | What are policies ? List and explain it's various types.                            | BTL2  | Understanding |
| 3    | What is CERT explain in detail.   | BTL1  | Remembering   |

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|----|--|------|---------------|
| 4  | Explain what is Computer emergency response team and the activities that are performed by them.  | BTL3 | Applying      |
| 5  | i) Write the distinct ways in which virtual environment gets compromised. (7)<br>ii) Explain about the roles that are provided by administrators. (6)  | BTL2 | Understanding |
| 6  | Explain a short note on virtualization threats.  | BTL1 | Remembering   |
| 7  | Examine about<br>(i) The vulnerabilities that are unique to virtual machines. (6)<br>(ii) According to Burton Group what are the five immutable laws virtualization security?(7)   | BTL3 | Applying      |
| 8  | Explain the following with examples:<br>i) Show how VMware's ESX server vulnerabilities can be categorized, as interpreted by the DoD and Describe about ESX server architecture. (3)<br>ii) Show VMware's approach towards the virtualized infrastructure.. (3) | BTL4 | Analyzing     |
| 9  | What are hypervisors and its major vulnerabilities? (13)   | BTL4 | Analyzing     |
| 10 | Write in detail about any four best practices for securing virtualized systems.(13)  | BTL2 | Understanding |
| 11 | Mention some important VM hardening techniques..(13)   | BTL1 | Remembering   |
| 12 | (i) How can physical access to the host be limited. (6)<br>(ii) Write a note on updating and Patching and enabling Perimeter Defense on the VM.(7)   | BTL6 | Creating      |
| 13 | Explain the steps to harden the host domain. (13)  | BTL5 | Evaluating    |
| 14 | Write in brief about the additional VM recommendations given by Tavis Ormand. (13)   | BTL4 | Analyzing     |
| 15 | How to secure VM remote access? How to harden virtual machine? (13)  | BTL3 | Applying      |
| 16 | Discuss about increased Denial of service risk. (13)   | BTL2 | Understanding |
| 17 | Explain the framework – CSIRT. (13)  | BTL5 | Evaluating    |

### PART – C

| Q.No | Question   | Level | Competence |
|------|--|-------|------------|
| 1    | Explain the security implementation techniques that are required for most computer systems. (15) | BTL6  | Creating   |
| 2    | Explain the measures to harden the virtual machines. (15)  | BTL5  | Evaluating |
| 3    | Discuss about the threats to virtualized systems. (15)   | BTL5  | Evaluating |
| 4    | Write about the work of Computer Security Incident Response Team. (15)                           | BTL6  | Creating   |
| 5    | Write about security policy implementation and its types. (15)                                   | BTL5  | Evaluating |

### UNIT III - CLOUD COMPUTING SECURITY ARCHITECTURE

Architectural Considerations, Security Management, Security Awareness, Training, and Education, Trusted Cloud Computing , Secure Execution Environments and Communications, Micro architectures, Memory Cards Smart Cards, Biometrics, Biometrics, Autonomic Security.

#### PART – A

| Q.No | Question   | Level | Competence    |
|------|--|-------|---------------|
| 1    | Define Security Management.  | BTL2  | Understanding |
| 2    | Discuss the types of Cloud Security control.                                   | BTL2  | Understanding |
| 3    | Analyze about Sensitive data..   | BTL4  | Analyzing     |
| 4    | Discuss about Confidential data.   | BTL4  | Analyzing     |
| 5    | List the types of information classification concepts.                         | BTL4  | Analyzing     |
| 6    | State the advantage of Information classification.                             | BTL1  | Remembering   |
| 7    | Show the need for data classification schema for sensitive information.        | BTL3  | Applying      |
| 8    | Recall Information Classification Procedures.                                  | BTL1  | Remembering   |
| 9    | Explain security awareness.  | BTL5  | Evaluating    |
| 10   | Examine about training and education.  | BTL3  | Applying      |
| 11   | Define trusted cloud computing.  | BTL1  | Remembering   |
| 12   | Write the types of training related to cloud security.                         | BTL1  | Remembering   |
| 13   | Discuss the characteristics of trusted cloud computing.                        | BTL6  | Creating      |
| 14   | Show the features that the secure cloud computing communication should ensure. | BTL1  | Remembering   |
| 15   | What is confidentiality?   | BTL2  | Understanding |
| 16   | What is Virtual Private Network?   | BTL3  | Applying      |
| 17   | Discuss the elements of Public Key infrastructure                              | BTL6  | Creating      |
| 18   | What do you mean by static and dynamic password.                               | BTL5  | Evaluating    |
| 19   | What is meant by Public key infrastructure.                                    | BTL1  | Remembering   |
| 20   | What are biometrics?   | BTL2  | Understanding |
| 21   | Define smartcard.  | BTL2  | Understanding |
| 22   | List the types of token and explain the same.                                  | BTL3  | Applying      |
| 23   | What is a digital certificate?   | BTL4  | Analyzing     |
| 24   | Recall the term VPN Tunneling.   | BTL5  | Evaluating    |

#### PART – B

| Q.No | Question   | Level | Competence    |
|------|--|-------|---------------|
| 1    | Illustrate with an example on Information Classification. (13)   | BTL6  | Creating      |
| 2    | Write a note on security awareness, training and education.(13)  | BTL2  | Understanding |
| 3    | What is Explain secure communication ? (13)  | BTL1  | Remembering   |
| 4    | Illustrate trusted cloud computing an example (13)   | BTL3  | Applying      |
| 5    | (i) What are the complementary actions in cloud security (6)<br>(ii) Discuss about Cloud Security control. (7) | BTL2  | Understanding |
| 6    | Discuss in detail, about public key infrastructure. (13)   | BTL2  | Understanding |
| 7    | Explain about Virtual Private network with neat diagram .(13)  | BTL5  | Evaluating    |
| 8    | What is Microarchitecture explain in detail. (13)  | BTL3  | Applying      |

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| 9  | (i) Show how to implement Identity Management.(7)<br>(ii) Show how to implement Network to network VPN. (6) | BTL5 | Evaluating    |
| 10 | Write a brief note on Identity Management and access control.   | BTL4 | Analyzing     |
| 11 | Explain about Biometrics.(13)   | BTL1 | Remembering   |
| 12 | Explain about Autonomic Security in detail. (13)  | BTL1 | Remembering   |
| 13 | Describe in detail about the following<br>(i) Vpn Tunneling (7)<br>(ii) Remote access VPN. (6)              | BTL1 | Remembering   |
| 14 | Analyze the following:<br>(i) Autonomic Protection. (7)<br>(ii) Autonomic Self-healing. (6)                 | BTL4 | Analyzing     |
| 15 | Explain with an illustration on VPN Configuration. (13)   | BTL3 | Applying      |
| 16 | Define the types of Micro architecture in brief. (13)   | BTL2 | Understanding |
| 17 | Write a note on Passwords and tokens. (13)  | BTL4 | Analyzing     |

**PART - C**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | Write a note on Biometrics in detail. (15)                                     | BTL5         | Evaluating        |
| 2           | Write a note on Virtual Private Network with neat diagram. (15)                | BTL6         | Creating          |
| 3           | Discuss in detail about Secure execution environments and communications. (15) | BTL6         | Creating          |
| 4           | What is Microarchitecture? Explain in detail. (15)                             | BTL5         | Evaluating        |
| 5           | Explain in detail about Identity Management and access control. (15)           | BTL6         | Creating          |

**UNIT IV - PROTECTION AND PRIVACY OF INFORMATION ASSETS IN THE CLOUD**

Three Usage Scenarios Understanding the Characteristics , Service Based , Scalable and Elastic, Authentication and Authorization , The Cloud Security Continuum and a Cloud Security Reference Model, Data Privacy in the Cloud.

**PART – A**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | Define the three usage scenarios.  | BTL1         | Remembering       |
| 2           | Give the list to whom the three usage scenarios are applicable.              | BTL2         | Understanding     |
| 3           | Analyze some questions to be considered from customer point of view.         | BTL4         | Analyzing         |
| 4           | Analyze some questions to be considered from cloud provider's point of view. | BTL4         | Analyzing         |
| 5           | Discuss the term Service.  | BTL2         | Understanding     |
| 6           | Summarize Security Reference Model.  | BTL2         | Understanding     |
| 7           | What is Cloud Security Continuum?  | BTL1         | Remembering       |
| 8           | Assess about Principle of Atomicity  | BTL5         | Evaluating        |
| 9           | Show the Elements included in Cloud Security Continuum.                      | BTL3         | Applying          |
| 10          | Demonstrate Data Privacy with example.                                       | BTL3         | Applying          |
| 11          | Explain Principle of Atomicity.  | BTL5         | Evaluating        |
| 12          | Discuss the elements in CSS Model.   | BTL6         | Creating          |
| 13          | Define the need for Data Privacy.  | BTL1         | Remembering       |
| 14          | What is Data Classification.   | BTL6         | Creating          |
| 15          | List the components of SOA.  | BTL1         | Remembering       |
| 16          | Examine the need for SOA.  | BTL3         | Applying          |
| 17          | Define Cloud Computing quoted by NIST.                                       | BTL1         | Remembering       |
| 18          | Give the need for privacy and protection of Data.                            | BTL2         | Understanding     |
| 19          | Differentiate normal security protocols with CSS Model.                      | BTL4         | Analyzing         |
| 20          | Define the need for Cloud Security Continuum.                                | BTL1         | Remembering       |
| 21          | Illustrate the reference model for Cloud Security Continuum.                 | BTL5         | Evaluating        |
| 22          | State the property – locality independence in cloud.                         | BTL4         | Analyzing         |
| 23          | Define Information Lifecycle Management.                                     | BTL2         | Understanding     |
| 24          | Define the need for addressing the data in flight and rest.                  | BTL3         | Applying          |

**PART - B**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | What are the three usage scenarios explain the same. (13)                        | BTL1         | Remembering       |
| 2           | Illustrate the characteristics with an example. (13)                             | BTL3         | Applying          |
| 3           | Write a short note on:<br>i) Service Based. (6)<br>(i) Scalable and Elastic. (7) | BTL1         | Remembering       |
| 4           | Explain the characteristic Authentication and Authorization. (13)                | BTL3         | Applying          |
| 5           | Illustrate the cloud Security Continuum with neat diagram. (13)                  | BTL6         | Creating          |
| 6           | Explain about the Cloud Security Reference model . (13)                          | BTL5         | Evaluating        |
| 7           | What is Data Privacy in Cloud. (13)  | BTL4         | Analyzing         |
| 8           | Write a short note on:<br>i) Service Based. (6)                                  | BTL4         | Analyzing         |



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|    | ii) Authentication and Authorization. (7)   |      |               |
| 9  | Develop a security reference model for an organization. Consider the organization implements public cloud strategy. | BTL1 | Remembering   |
| 10 | Tabulate the service models and the corresponding deployment model that suits well for the same. (13)               | BTL2 | Understanding |
| 11 | Tabulate the characteristics of Cloud from Consumer Perspective. (13)   | BTL4 | Analyzing     |
| 12 | Discuss on Authentication and Authorization and its significance. (13)  | BTL2 | Understanding |
| 13 | Discuss the Scalable cloud characteristic and its significance. (13)  | BTL1 | Remembering   |
| 14 | Discuss the characteristics of Cloud from Provider Perspective. (13)  | BTL2 | Understanding |
| 15 | What is Privacy? Explain the Cloud Privacy. (13)  | BTL3 | Applying      |
| 16 | Explain about the characteristics of the cloud. (13)  | BTL2 | Understanding |
| 17 | Define a security reference model based on the characteristics of the cloud.(13)                                    | BTL5 | Evaluating    |

**PART - C**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | Discuss the characteristics of Cloud with illustration. (15)           | BTL5         | Evaluating        |
| 2           | Discuss the three usage scenarios and explain in detail. (15)          | BTL6         | Creating          |
| 3           | Explain the Cloud Security Continuum in detail with neat diagram. (15) | BTL5         | Evaluating        |
| 4           | Explain the Cloud Security reference model. (15)                       | BTL6         | Creating          |
| 5           | Discuss about the Data Privacy in the Cloud. (15)                      | BTL6         | Creating          |

**UNIT V – CLOUD MORPHING: SHAPING THE FUTURE OF CLOUD COMPUTING SECURITY AND AUDIT**

Cloud Security Alliance; Cloud Morphing Strategies, Virtual Security, and Data in the Cloud, Cloud Storage, and Database Classes in the Cloud, Perimeter Security, and Cryptographic Protection of the Data.

**PART – A**

| <b>Q.No</b> | <b>Question</b>  | <b>Level</b> | <b>Competence</b> |
|-------------|--|--------------|-------------------|
| 1           | What does a key management cloud does?   | BTL4         | Analyzing         |
| 2           | Mention the audit processes that can be maintained by a class, object instances, and attribute values? | BTL1         | Remembering       |
| 3           | What is fail fast?   | BTL3         | Applying          |
| 4           | What does CSA trusted cloud initiative do?   | BTL1         | Remembering       |
| 5           | How data is managed in cloud?  | BTL5         | Evaluating        |
| 6           | Why companies prefer cloud?  | BTL1         | Remembering       |
| 7           | Who are cloud providers and what do they do?   | BTL2         | Understanding     |
| 8           | What is SOA?   | BTL2         | Understanding     |
| 9           | What is CSA?   | BTL4         | Analyzing         |
| 10          | Name any 4 key deliverables from CSA   | BTL2         | Understanding     |
| 11          | What is cloud audit?   | BTL3         | Applying          |
| 12          | How cloud audit helps a provider?  | BTL1         | Remembering       |
| 13          | Define hypervisor.   | BTL6         | Creating          |
| 14          | Define the responsibilities of a hypervisor.   | BTL1         | Remembering       |
| 15          | What is cloud storage?   | BTL2         | Understanding     |
| 16          | What is scalar type in cloud storage?  | BTL3         | Applying          |
| 17          | Differentiate blob and clob.   | BTL1         | Remembering       |
| 18          | What is meant by database classes in cloud?  | BTL5         | Evaluating        |
| 19          | How Cryptographic Protection of the Data workout in cloud?   | BTL4         | Analyzing         |
| 20          | How audit process can be achieved using geographic location policies                                   | BTL6         | Creating          |
| 21          | What is perimeter security?  | BTL3         | Applying          |
| 22          | How to manage perimeter security?  | BTL5         | Evaluating        |
| 23          | List some morphing strategies.   | BTL4         | Analyzing         |
| 24          | Explain the term cloud security alliance.  | BTL4         | Analyzing         |

**PART - B**

| <b>Q.No</b> | <b>Question</b>   | <b>Level</b> | <b>Competence</b> |
|-------------|---|--------------|-------------------|
| 1           | Describe in detail the key deliverables from CSA.                                       | BTL1         | Remembering       |
| 2           | (i) Describe Cloud Audit 1.0. (9)<br>(ii) Describe the significance of Cloud Audit. (4) | BTL2         | Understanding     |
| 3           | Examine about Virtual Security. How does it improve performance and reliability? (13)   | BTL1         | Remembering       |
| 4           | Demonstrate the Cloud Morphing strategies with example. (13)                            | BTL3         | Applying          |
| 5           | Give a detailed description about Data in the cloud. (13)                               | BTL1         | Remembering       |
| 6           | Describe the different types of Cloud Storage and explain the same. (13)                | BTL2         | Understanding     |
| 7           | Explain about Database Classes in the Cloud. (13)                                       | BTL2         | Understanding     |
| 8           | Show the various levels of Perimeter Security and explain the same. (13)                | BTL3         | Applying          |
| 9           | With example explain Cryptographic Protection of the Data. (13)                         | BTL1         | Remembering       |

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| 10 | Analyze about the Key Management strategy in Cloud. (13)   | BTL4 | Analyzing     |
| 11 | Analyze about Cloud Auditing in detail. (13)   | BTL4 | Analyzing     |
| 12 | Examine how to manage multitenant environments in Cloud. (13)  | BTL4 | Analyzing     |
| 13 | Summarize in detail about Data handling in Cloud. (13)   | BTL5 | Evaluating    |
| 14 | What is the need for Database classes. Explain with a real time example. (13)  | BTL6 | Creating      |
| 15 | Discuss the advantage of Cloud auditing. Mention the types and explain them in brief. (13)                             | BTL2 | Understanding |
| 16 | Discuss about the need for Cloud Security and explain a real time situation of how you deploy the cloud features. (13) | BTL5 | Evaluating    |
| 17 | Generalize your views about the threats that happen due to the absence of the Security feature in the cloud. (13)      | BTL3 | Applying      |

**PART - C**

| <b>Q.No</b> | <b>Question</b>   | <b>Level</b> | <b>Competence</b> |
|-------------|---|--------------|-------------------|
| 1           | Write about Cloud Security Alliance and it's key deliverables. (15)           | BTL6         | Creating          |
| 2           | Describe about virtual security with proper illustration. (15)                | BTL5         | Evaluating        |
| 3           | Why Cryptographic protection of data in the cloud is problematic. (15)        | BTL5         | Evaluating        |
| 4           | Write in detail about cloud storage. (15)                                     | BTL6         | Creating          |
| 5           | Write about perimeter security and cryptographic protection of the data. (15) | BTL6         | Creating          |