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Enrollment No.....



Faculty of Engineering / Science

End Sem Examination May-2024

CS3EL12 / BC3EC08 Cloud Computing

Programme: B. Tech / B.Sc. Branch/Specialisation: CSE All /
Computer Science

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

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|-----|------|---|---|
| Q.1 | i. | Which of the following are the features of cloud computing? | 1 |
| | | (a) Security (b) Large Network Access | |
| | | (c) Availability (d) All of these | |
| | ii. | The private cloud is a- | 1 |
| | | (a) A cloud service inaccessible to anyone but the cultural elite | |
| | | (b) Standard cloud service offered via the Internet | |
| | | (c) Cloud architecture maintained within an enterprise data centre | |
| | | (d) All of these | |
| | iii. | Point out the wrong statement? | 1 |
| | | (a) Abstraction enables the key benefit of cloud computing: shared, ubiquitous access | |
| | | (b) Virtualization assigns a logical name for a physical resource when a request is made. | |
| | | (c) OS level virtualization cannot be done. | |
| | | (d) All of these | |
| | iv. | The service used by developers to develop applications is: | 1 |
| | | (a) SaaS (b) PaaS (c) IaaS (d) Daas | |
| | v. | The cloud migration approach that demands the least cost and complexity is _____. | 1 |
| | | (a) Lift and Shift (b) Refactoring | |
| | | (c) Cloud Modernization (d) Lift and Refit | |

P.T.O.

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- vi. The AWS service that provides virtual servers for compute capacity is _____. **1**
 (a) S3 (b) IAM (c) VPC (d) EC2
- vii. One common risk that arises from lack of data protection in the cloud is- **1**
 (a) Lack of good data (b) Lack of data integrity
 (c) Loss of memory (d) None of these
- viii. The responsibility of cloud security lies with- **1**
 (a) Provider only
 (b) Customer only
 (c) Both provider and customer
 (d) None of these
- ix. The primary goal of Identity management is managing _____ so that access to computer resources, applications, data, and services is controlled properly. **1**
 (a) Applications (b) Personal identity information
 (c) Logs (d) None of these
- x. Single sign on means: **1**
 (a) An interface that validates identity as soon as a user signs on anywhere.
 (b) Sign on once and stay logged in forever.
 (c) Sign on expires after an hour
 (d) None of these
- Q.2 i. What is the cloud computing? **2**
 ii. Explain characteristics of cloud computing. **3**
 iii. Explain the common type of cloud deployment model with suitable diagrams. **5**
- OR iv. Explain the various phases in the evolution of datacentre into public cloud. **5**
- Q.3 i. Explain the use of hypervisor in cloud computing. **2**
 ii. Explain virtualization in detail. **8**
- OR iii. Why Office 365 is one of the best cloud best services for all type of businesses? Explain the different services offered by Office 365. **8**

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- Q.4 i. Why to use cloud platforms? **3**
 ii. Briefly explain seven-step model of migration into cloud technology. **7**
- OR iii. Compare AWS, Microsoft Azure, and Google Cloud Platform. **7**
- Q.5 i. What are the benefits of designing a cloud proof of concept? **2**
 ii. What are the legal and compliance issues involved when moving to cloud? **8**
- OR iii. Explain the impact of cloud on IT service management. **8**
- Q.6 Attempt any two:
 i. Write short note on: **5**
 (a) SOA (b) Cloud Economics
 ii. Explain virtual desktop and their management in cloud. **5**
 iii. What are the cloud dos and don'ts? **5**

Marking Scheme

Cloud Compting-BC3EC08(T)

Q.1	i)	d) All of the mentioned.		1
	ii)	c) cloud architecture maintained within an enterprise data centre		1
	iii)	c) OS level virtualization cannot be done.		1
	iv)	b) PaaS		1
	v)	a) Lift and Shift		1
	vi)	d) EC2		1
	vii)	b) Lack of data integrity		1
	viii)	c) Both provider and customer		1
	ix)	b) Personal Identity information		1
	x)	a) An interface that validates identity as soon as a user signs on anywhere.		1
Q.2	i.	Cloud computing explanation-	2 Marks	2
	ii.	At least 5 Characteristics	- Each 0.5 Marks	3
	iii.	4 deployment model- Diagram deployment model	3 Marks - 0.5 Marks for each	5
OR	iv.	4 Phases explanation		5
Q.3	i.	At least 2 uses		2
	ii.	Virtualization definition	2 Marks	8
		types Diagram	4 Marks 2 Marks	
OR	iii.	Office 365 Features- 4 services at least –	4 Marks 4 Marks	8
Q.4	i.	3 uses –	1 Marks each	3
	ii.	7 steps –	1 Marks each	7
OR	iii.	Detailed Comparison	Each 1.5 Marks	7
Q.5	i.	Benefits	Each 1 Marks	2
	ii.	legal issues –	4 Marks	8
		compliance issues-	4 Marks	
OR	iii.	8 Impact –	1 Marks each	8

Q.6

i.	SOA -	2.5 Marks	5
	Cloud Economic Cost Model-	2.5 Marks	
ii.	Virtual desktop –	2.5 Marks	5
	Management –	2.5 Marks	
iii.	5 Do and Don'ts –	1 Marks each	5
