

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Science / Engineering

End Sem Examination May-2024

CA3EL16 Cloud Computing

Programme: BCA / BCA- Branch/Specialisation: Computer  
MCA (Integrated) Application

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.

- Q.1 i. Which of the following is an essential concept related to the Cloud? **1**  
(a) Productivity (b) Reliability  
(c) Abstraction (d) All of these
- ii. Which one of the following options can be considered as the Cloud? **1**  
(a) Hadoop (b) Intranet  
(c) Web Applications (d) All of these
- iii. \_\_\_\_\_ refers to the location and management of the cloud's infrastructure. **1**  
(a) Service (b) Deployment  
(c) Application (d) None of these
- iv. Which of the following is the most refined and restrictive cloud service model? **1**  
(a) PaaS (b) IaaS (c) SaaS (d) CaaS
- v. Web services use \_\_\_\_\_ for sending the XML data between applications. **1**  
(a) REST (b) SOAP (c) HTTP (d) None of these
- vi. \_\_\_\_\_ automatically allocates more resources for the web application to handle the additional demand? **1**  
(a) Amazon EC2 (b) Microsoft azure  
(c) GAE (d) None of these

P.T.O.

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- vii. In Virtualization, which architecture provides the virtual isolation between the several tenants? **1**  
 (a) IT Architecture (b) Multitenant  
 (c) Deployment (d) None of these
- viii. On which one of the following hypervisor runs directly on the underlying host system, it is also known as\_\_\_\_\_. **1**  
 (a) Bare metal hypervisor (b) Hosted Hypervisor  
 (c) Native Hypervisor (d) Both (a) and (c)
- ix. Which of the following service provider provides the least amount of built in security? **1**  
 (a) PaaS (b) IaaS (c) SaaS (d) CaaS
- x. Which of the following is considered an essential element in cloud computing by CSA? **1**  
 (a) Multi-tenancy (b) Identity and access management  
 (c) Virtualization (d) All of these
- Q.2 i. What do you mean by scalability and portability in cloud computing? **2**  
 ii. Discuss the cloud computing reference model with suitable diagram. **8**
- OR iii. Explain four types of cloud deployment models with suitable diagram. **8**
- Q.3 i. What is cloud provider and cloud broker? **2**  
 ii. What is meant by cloud service? Explain SaaS, PaaS and IaaS in detail with example. **8**
- OR iii. Discuss about any four cloud service providers. **8**
- Q.4 i. What is meant by collaborating via social network in cloud? Give example. **3**  
 ii. Explain the architecture of Amazon EC2. What are its uses? **7**
- OR iii. Explain Google App Engine in detail with a neat diagram. **7**
- Q.5 i. What is the need of virtual machine? Show with suitable diagram. **3**  
 ii. Explain in detail the tools and mechanisms for virtualization. **7**
- OR iii. Explain the OS level virtualization. List the pros and cons of OS level virtualization. **7**

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- Q.6 i. What is meant by security level of third party in cloud? Give example. **2**  
 ii. Discuss the cloud computing security architecture in brief with suitable diagram. **8**
- OR iii. Enlist and explain any four security challenges in cloud computing. **8**

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**Marking Scheme**  
**Cloud Computing (T) – CA3EL16 (T)**

Marking Scheme									
Cloud Computing (T) – CA3EL16 (T)									
Q.1	i)	c) Abstraction	1	OR	ii.	Example- Explanation - Uses -	1 Mark 5 Marks, 2 Marks	7	
	ii)	a) Hadoop	1		iii.	Explanation - Diagram -	5 Marks, 2 Marks		
	iii)	b) Deployment	1		Q.5	i.	Explanation - Diagram-		2 Marks 1 Mark
	iv)	b) Paas	1	ii.		Explanation of tools- Mechanisms-	3.5 Marks, 3.5 Marks	7	
	v)	b) SOAP	1	OR		iii.	Explanation - Pros and cons –		3.5 Marks, 3.5 Marks
	vi)	c) GAE	1			Q.6			
	vii)	b) Multitenant	1	i.	Definition - Example –		1 Mark 1 Mark	2	
	viii)	d) Both A and C	1	ii.	Explanation- Diagram		6 Marks 2 Marks		8
	ix)	b) IaaS	1	iii.	Enlist and Explanation -		(2 Marks *4)		
	x)	a) Multi-tenancy	1						
Q.2	i.	Definition-	(1 Mark*2)	OR			*****		
	ii.	Explanation- Diagram-	6 Marks 2 Marks						
	iii.	Explanation –	(2 Marks *4)		8				
Q.3	i.	Definition -	(1 Mark *2)	OR					
	ii.	Definition - Explanation-	2 Mark (2 Marks *3)						
	iii.	Explanation –	(2 Marks *4)		8				
Q.4	i.	Explanation -	2 Marks,				3		