



Faculty of Engineering / Science

End Sem (Even) Examination May-2022

CA3EL16 Cloud Computing

Programme: BCA /
BCA+MCA (Integrated)Branch/Specialisation: Computer
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.

- Q.1 i. Which of the following is a cloud stake holder? **1**
 (a) Cloud providers (b) Clients
 (c) End users (d) Cloud users
- ii. In _____ type of cloud, the cloud is composed of multiple internal and external clouds. **1**
 (a) Private (b) Public (c) Protected (d) Hybrid
- iii. _____ model consists of the particular types of services that you can access on a cloud computing platform. **1**
 (a) Service (b) Deployment
 (c) Application (d) None of these
- iv. When you add a software stack such as an operating system and applications to the service, the model shifts to _____ model. **1**
 (a) SaaS (b) PaaS (c) IaaS (d) All of these
- v. Which of the following can be considered PaaS offering? **1**
 (a) Google Maps (b) Gmail
 (c) Google earth (d) All of these
- vi. Which of the following is a pure infrastructure play? **1**
 (a) Azure (b) Google App
 (c) AWS (d) None of these
- vii. Which of the following type of virtualization are also characteristics of cloud computing? **1**
 (a) Storage (b) Application
 (c) CPU (d) None of these
- viii. Which of the following is another name for the system virtual machine? **1**
 (a) Hardware virtual machine (b) Software virtual machine
 (c) Real machines (d) None of these

- ix. Which of the following is the operational domain of CSA? **1**
 (a) Scalability (b) Portability and Interoperability
 (c) Flexibility (d) None of these
- 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, portability and fault tolerance in cloud computing? **3**
 ii. Define cloud computing. Enlist the challenges of cloud computing and explain any three of it. **7**
- OR iii. Explain in detail cloud computing reference architecture with a neat diagram. **7**
- Q.3 i. What is meant by resource broker in cloud? Give example. **2**
 ii. Enlist and explain any four cloud services with example. **8**
- OR iii. Enlist and explain any four cloud providers. **8**
- Q.4 i. What is meant by collaborating via social network in cloud? Give example. **3**
 ii. Explain Amazon EC2 in detail with a neat diagram. **7**
- OR iii. Explain Google App Engine in detail with a neat diagram. **7**
- Q.5 i. What is meant by process, host and native in virtualization? **3**
 ii. Explain in detail about desktop and application virtualization. **7**
- OR iii. What is meant by server virtualization? Explain with example. **7**
- Q.6 i. What is meant by security level of third party in cloud? Give example. **2**
 ii. Explain cloud computing security architecture using suitable block diagram. **8**
- OR iii. Enlist and explain any four security challenges in cloud computing. **8**

Marking Scheme
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Q.1	i.	(b) Clients	1
	ii.	(d) Hybrid	1
	iii.	(a) Service	1
	iv.	(a) SaaS	1
	v.	(a) Google Maps	1
	vi.	(c) AWS	1
	vii.	(d) All of these	1
	viii.	(a) Hardware virtual machine	1
	ix.	(b) Portability and Interoperability	1
	x.	(a) Multi tenancy	1
Q.2	i.	Scalability, portability and fault tolerance in cloud computing Definition 1 Mark for each (1 Mark*3)	3
	ii.	Cloud computing Definition 1 Mark Challenges of cloud computing Any three - 2 Marks for each (2 Marks*3)	7
	OR	iii. Cloud computing reference architecture Explanation 5 Marks Diagram 2 Marks	7
Q.3	i.	Resource broker in cloud Definition 1 Mark Example 1 Mark	2
	ii.	Any four cloud services with example Explanation with example- 2 Marks for each (2 Marks*4)	8
	OR	iii. Any four cloud providers Explanation- 2 Marks for each (2 Marks*4)	8
Q.4	i.	Collaborating via social network in cloud Definition 2 Marks Example 1 Mark	3
	ii.	Amazon EC2 in detail with a neat diagram. Explanation 5 Marks Diagram 2 Marks	7
	OR	iii. Google App Engine in detail with a neat diagram. Explanation 5 Marks Diagram 2 Marks	7

Q.5	i.	Process, host and native in virtualization Definition 1 Mark for each (1 Mark*3)	3
	ii.	Desktop and application virtualization Explanation 3.5 Marks for each (3.5 Marks*2)	7
OR	iii.	Server virtualization Definition 1 Mark Explanation with example 6 Marks	7
Q.6	i.	Security level of third party in cloud. Definition 1 Mark Example 1 Mark	2
	ii.	Cloud computing security architecture. Explanation 6 Marks Diagram 2 Marks	8
	OR	iii. Any four security challenges in cloud computing. Explanation- 2 Marks for each (2 Marks*4)	8
