

Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering  
End Sem (Odd) Examination Dec-2019  
CA5CO20 Enterprise Cloud Computing  
Programme: MCA 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 essential concept related to Cloud? **1**  
(a) Reliability (b) Productivity  
(c) Abstraction (d) All of these
- ii. Cloud computing is a \_\_\_\_\_ system and it is necessarily **1**  
unidirectional in nature.  
(a) Stateless (b) Stateful (c) Reliable (d) All of these
- iii. Which of the following role of web service architecture implements **1**  
the service and makes it available on the Internet?  
(a) Service Provider (b) Service Requestor  
(c) Service Registry (d) None of these
- iv. A typical \_\_\_\_program obtains a remote reference to one or more **1**  
remote objects on a server and then invokes methods on them.  
(a) Server (b) Client (c) Thread (d) Concurrent
- v. What does IPsec in Azure platform refers to? **1**  
(a) Internet Protocol Security protocol suite  
(b) Internet Standard  
(c) Commodity servers  
(d) All of these
- vi. Which of the following is a structured data store that supports **1**  
indexing and data queries to both EC2 and S3?  
(a) CloudWatch (b) Amazon SimpleDB  
(c) Amazon Cloudfront (d) All of these

P.T.O.

[2]

- vii. HDFS works in a \_\_\_\_\_ fashion. **1**  
 (a) Master-worker (b) Master-slave  
 (c) Worker/slave (d) All of these
- viii. In \_\_\_\_\_, the default job is similar, but not identical, to the Java equivalent. **1**  
 (a) Mapreduce (b) Streaming  
 (c) Orchestration (d) All of these
- ix. Which of the following option doesn't belong to ERP Technologies? **1**  
 (a) Data Warehousing (b) Business Process Reengineering  
 (c) Data Mining (d) Manufacturing resource planning.
- x. \_\_\_\_\_uses sophisticated mathematical and statistical techniques such as neural networking and cluster analysis. **1**  
 (a) Data mining (b) Data survey  
 (c) CRM (d) None of these
- Q.2 i. How do multi-tenancy advantageous to the success of cloud computing? **2**  
 ii. What pros and cons of Cloud computing in comparisons of Distributed and Grid computing? **3**  
 iii. How many types of deployment models are used in cloud? Which one is best and why? **5**
- OR iv. Why is virtualization important? Describe the characteristics of server virtualization and application virtualization. **5**
- Q.3 i. What are the computing platforms and technologies in cloud computing? **2**  
 ii. Why did client server architecture fail to scale for high volume transaction processing, Explain with neat diagram? **8**
- OR iii. Explain the working architecture of internet of services with its working component diagram? **8**
- Q.4 i. What is Mashups user interface service, explain with example? **3**  
 ii. Mention cloud computing services or cloud computing stacks which are used for large-scale cloud computing? **7**
- OR iii. Differentiate between SOAP / WSDL And REST API in detail. **7**

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- Q.5 i. What is SSTable in BigTable? **4**  
 ii. Explain basic Mapreduce model in detail. **6**
- OR iii. What is the difference between HDFS and GFS? **6**
- Q.6 Attempt any two:  
 i. Why it is important to use Enterprise Anatomy Early in The Business Transformation Projects? **5**  
 ii. What is cloud based ERP software? Mentions benefits of cloud ERP. **5**  
 iii. What is the difference between ERP, SCM and CRM? **5**

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## Marking Scheme

### CA5CO20 Enterprise Cloud Computing

Q.1	i.	Which of the following is essential concept related to Cloud? (c) Abstraction	1
	ii.	Cloud computing is a _____ system and it is necessarily unidirectional in nature. (a) Stateless	1
	iii.	Which of the following role of web service architecture implements the service and makes it available on the Internet? (b) Service Requestor	1
	iv.	A typical _____ program obtains a remote reference to one or more remote objects on a server and then invokes methods on them. (b) Client	1
	v.	What does IPsec in Azure platform refers to? (a) Internet Protocol Security protocol suite	1
	vi.	Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3? (b) Amazon SimpleDB	1
	vii.	HDFS works in a _____ fashion. (a) Master-worker	1
	viii.	In _____, the default job is similar, but not identical, to the Java equivalent. (b) Streaming	1
	ix.	Which of the following option doesn't belong to ERP Technologies? (d) Manufacturing resource planning.	1
	x.	_____uses sophisticated mathematical and statistical techniques such as neural networking and cluster analysis. (a) Data mining	1
Q.2	i.	Multi-tenancy advantageous 0.5 mark for each	2
	ii.	Pros and cons of Cloud computing Comparisons of Distributed and Grid computing	3
	iii.	Types of deployment models Which one is best with reason	5
OR	iv.	Virtualization important	5

		Characteristics of server virtualization	1.5 marks	
		Characteristics of application virtualization	1.5 marks	
Q.3	i.	Computing platforms Technologies in cloud computing	1 mark 1 mark	2
	ii.	Client server architecture fail to scale for high volume transaction processing Neat diagram	5 marks 3 marks	8
OR	iii.	Explanation of working architecture Component diagram	5 marks 3 marks	8
Q.4	i.	Mashups user interface service Explain with example	1.5 marks 1.5 marks	3
	ii.	Cloud computing services Explanation	4 marks 3 marks	7
OR	iii.	Difference b/w SOAP / WSDL and REST API 1 mark for each difference	(1 mark * 7)	7
Q.5	i.	Definition of SSTable in BigTable Explanation	2 marks 2 marks	4
	ii.	Mapreduce model Explanation Example	4 marks 2 marks	6
OR	iii.	Difference b/w HDFS and GFS 1 mark for each difference	(1 mark *6)	6
Q.6		Attempt any two:		
	i.	Why it is important Explanation	2.5 marks 2.5 marks	5
	ii.	What is cloud based ERP software Benefits of cloud ERP	2.5 marks 2.5 marks	5
	iii.	Difference between ERP, SCM and CRM 1 mark for each difference	(1 mark * 5)	5

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