

PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

TEST - 1

Even Semester: 2018-19

Date: 06 March 2019

Course Code: CSE 306

Time: 1 Hour

Course Name: Cloud Computing

Max Marks: 40

Programme & Sem: B.Tech (DE) & VIII Sem (Group-I)

Weightage: 20%

Instructions:

(i) Read the question properly and answer accordingly.

(ii) Question paper consists of 3 parts.

Part A

Answer all the Questions. Each question carries four marks.

(3Qx4M=12)

- 1. Cloud computing has some interesting characteristics that bring benefits to both cloud service consumers (CSCs) and cloud service providers (CSPs). List and explain these characteristics.
- 2. Web is the primary interface through which cloud computing delivers its services. Justify.
- 3. Explain the pros and cons of Virtualization.

Part B

Answer all the Questions. **Each** question carries **six** marks.

(3Qx6M=18)

- 4. Write a short note on
 - i. Operating System Level Virtualization
 - ii. Application Level Virtualization
- 5. Define Hypervisor. Explain with graphical representation, the two types of hypervisors.
- 6. Explain Machine Reference Model of Execution Virtualization with a neat diagram.

Part C

Answer the Question. Question carries ten marks.

(1Qx10M=10)

7. With a neat diagram explain VMware's End User Virtualization (VMWare Workstation Architecture) and Server Virtualization (VMWare ESXi Server Architecture).



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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

TEST - 2

Even Semester: 2018-19

Course Code: CSE 306

Course Name: Cloud Computing

Program & Sem: B.Tech & VIII Sem (DE) Group-I

Date: 16 April 2019

Time: 1 Hour

Max Marks: 40

Weightage: 20%

Instructions:

(i) Read the question properly and answer accordingly.

(ii) Question paper consists of three parts.

Part A

Answer all the Questions. Each question carries four marks.

(3Qx4M=12)

- 1. Identify the limitations of public cloud and private cloud. Describe how they have been overcome in hybrid cloud model.
- 2. Discuss the Service Life Cycle in Aneka Container with a neat diagram.
- 3. List and explain the classifications of Platform-as-a-Service implementations.

Part B

Answer all the Questions. Each question carries six marks.

(3Qx6M=18)

- 4. Explain the Cloud Computing architecture (with a neat diagram), a layered view covering the entire stack of resources.
- 5. Explain the components of Infrastructure-as-a-Service solution with a neat diagram.
- 6. Explain the characteristics of Fabric services in Aneka.

Part C

Answer any one Question. The question carries ten marks.

(1Qx10M=10)

7. Explain Infrastructure and Logical organization of building Aneka Clouds.

OR

8. Explain Aneka Framework Overview with a neat diagram. Describe the characteristics of PAL in Aneka.

		GAIN MORE KNOWLEDGE REACH GREATER HEIGHTS
	E.	C 2040 40
		ren Semester: 2018-19
		ourse Code: CSE 306
		ourse Name: Cloud Conogram & Sem: B.Tech
	Ins	tructions:
	(i) (ii)	Read the questions pro Question paper consist
1.	А	nswer all the Questio
	(i) V	Vhich of the following i (a) Load Sharing (b) Broad Netwo (c) Pay on Usag (d) Fault Tolerar
	(ii) C	loud Computing is a c (a) True (b) False
	(iii) V	Vhich of the following r (a) Security on E (b) SLA Definitio (c) Backup of Da (d) None of the a
	(iv)V	irtual machines are co (a)True (b)False
	(v) W	Vhich of the following i (a) Google App I (b) Aneka (c) Amazon EC2 (d) Google Docs
	(vi)S	OAP is a format for se (a) Network Prot (b) Data Transfe

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PRESIDENCY UNIVERSITY **BENGALURU**

SCHOOL OF ENGINEERING

END TERM FINAL EXAMINATION

Date: 23 May 2019

Time: 3 Hours

mputing (DE)

Max Marks: 80

& VIII Sem (Group-I)

Weightage: 40%

- operly and answer accordingly.
- ts of three parts.

Part A

ons. Each question carries one mark.

(20Qx1M=20M)

- is/are NOT a property of Distributed Computing?
 - ork Access
 - е
- combination of Distributed Computing and Utility Computing.
- risk (/s) is/are present in Utility Computing?
 - Data
 - on
 - ata
 - above
- ostlier than actual machines.
- is/are SaaS?
 - Engine
- ending messages and is also called as __
 - tocol
 - er Protocol

 - (c) Communication Protocol (d) XML description Protocol

(vii) Micro	osoft Azure supports hybrid cloud platform.
	The statement is:
	(a) True
(:::\	(b) False
(viii)	is the negotiation of the resources through an agent to ensure that the
neces	sary resources are available at the right time to complete the objectives (a) Resource estimation
	(b) Resource brokering
	(c) Resource scheduling
	(d)None of the above
(ix)	is a complete operating environment with applications, management, and the user
interfa	
	(a) laaS
	(b) PaaS
	(c) SaaS
	(d) All of the above
(x) What	is the solution to overcome problems in full software-based virtualization?
	(a) Hardware Virtualization
	(b) Desktop Virtualization
	(c) Processor Virtualization
((d) Application Virtualization
_ (xi) In a hardw	scheme, the VM is installed as a Type 1 Hypervisor directly onto the
Haruw	(a) Para virtualization
	(b) Full virtualization
	(c) Emulation
	(d) None of the above
(xii)	model consists of the particular types of services that you can access on a
` '	computing platform.
	(a) Application
	(b) Deployment
	(c) Service
	(d) None of the above
(xiii) Poin	t out the correct statement :
	(a) Platforms can be based on specific types of development languages, application frameworks, or other constructs
	(b) SaaS is the cloud-based equivalent of shrink-wrapped software
	(c) SaaS may be succinctly described as software that is deployed on a hosted
	service
(: \ D	(d) All of the above
(xiv) Dyna	amic content presented in Google crawling isn't normally indexed.
	(a) AJAX
	(b) Java
	(c) JavaScript
	(d) All of the mentioned
(xv) Amaz	zon cloud-based storage system allows you to store data objects ranging in
size	
	from 1 byte up to 5GB.
	a) S1
	b) S2
	c) S3
	•
	d) S4

(X)	viii) part of the MapReduce is responsible for processing one or more chunks of data and producing the output results
	(a) Map task
	(b) Mapper
	(c) Task execution
	(d) All of the mentioned
(xi	x) Which resources are typically provided by an laaS cloud computing delivery model?
	(a) Applications
	(b) Middleware software stacks
	(c) Virtual Machines (d) Virtual Private Networks
(y)	(d) Virtual Frivate Networks k) Although the Hadoop framework is implemented in Java , MapReduce applications need
(^/	not be written in
	(a) C
	(b) Java
	(c) C#
	(d) None of the mentioned
	Part B
	Answer all the Questions. Each question carries six marks. (6Qx6M=36M)
2.	Explain Application Development, Infrastructure and System development helpful in
	building Cloud Computing environments.
3.	Explain the characteristics of virtualized environments with a neat diagram.
	Explain the Cloud Computing architecture, a layered view covering the entire stack of
	resources.
5	What are foundation services in Aneka container? Explain the centralized file storage and
٠.	distributed file system types of storage management.
6	Explain the parameter sweep application model with an example. Specifically mention the
Ο.	template task in the example.
7	List and explain benefits of XML.
٠.	List and explain benefits of AML.
	Part C
	Answer any two Questions. Each question carries twelve marks. (2Qx12M=24M)
8.	a. With a neat diagram, explain Google Big Table.
	b. Differentiate between high-performance computing, high-throughput computing and
	many-task computing, with suitable examples.
9	Explain with a neat diagram, Runtime Support for execution of MapReduce Jobs.
	What is SQL Azure? Explain with neat diagram SQL Azure architecture.
٠.	
	Page 3 of 3

(xvi) An application that needed _____ storage alone might not benefit from a cloud

(xvii) Which is the most popular NoSQL database for scalable big data store with Hadoop?

deployment at all.

(a) online

(b) offline

(c) virtual

(d) all of the mentioned

(d) None of the above

(a) Mongo DB(b) Cassandra(c) HBase

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