

			SLOT : E2+TE2	
	School	of Information Tec	chnology and Engineering	
Winter Semester 2	022-2023		Continuous Assessment Test – I	
Programme Name & Branch		M.C.A & Computer Application		
Course Code:	ITA6009	Course Title:	Cloud Computing	
Class Number(s)	VL2022230500276, VL20222305003 <u>0</u> 0, VL2022230500534			
Faculty Name(s)	Benjula Anbu	Malar M B, Krish	namoorthy N, Arunkumar A	

Exam Duration: 90 Min. Maximum Marks: 50

General instruction(s):

Q.No.	Question	Max Marks
1.	ABC curriculum and courseware have an excellent reputation among the educators and students. The company have strong development and operational teams supporting the products. Its sales organization and departments knows as soon as prospects get their hands on the product they want it. a) Suggest a suitable cloud service for the given scenario? Define the	
	service and give the characteristics (4 marks) b) Identify the suitable cloud deployment model and give its benefits (4 marks). c) Justify your answer (2 marks).	
2.	Elucidate on the storage virtualization in an educational sector. List the various services in the storage virtualization with a neat diagram.	10
3/	Elaborate in detail the NIST cloud computing architecture with a neat diagram.	10
A.	a) Large and small scale business sees the increase the productivity in the cloud. What are the business benefits involved in the cloud architectureb) What are the essential things to be taken in concern by users before migrating to cloud computing environment platform?	10
ξ. t	Identify cloud actor that manages the use, performance and delivery of cloud services, and negotiates relationships between cloud providers and cloud consumers. Explicate with a neat a diagram and with suitable scenario.	10



Slot: E2+TE2

School of Information Technology and Engineering

Winter Semester 2022-2023 (Freshers)

Continuous Assessment Test - II

Programme Name & Branch: M.C.A & Computer Application

Course Name & code: ITA6009 & Cloud Computing

Class Number (s): VL2022230500278, VL2022230500486, VL2022230500534

Faculty Name (s): Benjula Anbu Malar M B (10728), Krishnamoorthy N (19622),

Arun Kumar A (19707)

Exam Duration: 90 Min.

Maximum Marks: 50

General instruction(s):

Q.No.	Question	Max Marks
	Assume that a resources are provided under peak demands. Illustrate how intergrid	10
1.	gateway is used to allocate the Virtual machines from a local cluster to interact	
	with the public cloud provider to achieve the scalability in performance by	
	dynamic resource deployment.	
2	A private owned Transportation enterprise having different zones lot	10
2.	department like workshop, online licker,	1
	to the delay accounting route allocation purchasing and maintenance. The	
	realized planned to migrate to	
	own cloud services. In this case help them out in provisioning server model,	
	detabase model in a multi-tenant deployment model.	
3.	It the consider leading organization is providing the cloud services. Now the	10
٥.	to extend their services. They require your advice to state the	
	differences in cloud perspectives of provider, vendors and users. Explain the	
	1 de la comissa of the cloud and elaborate on their providers.	
4.	To the that a Amazon EC2 instances works over a 8 weeks timeline has a total	
4.	uptime of 800 hours and a total downtime of 205 hours with 4 failures in this	
	timeline.	
	Calculate the computing availability	6
	Colculate the failure rate (λ) for the above different scenarios.	4
5.	Explain the step by step mapreduce working model for the counting number of	10
J.	words for the following tongue twister.	
	Input1: How much wood would a woodchuck chuck, if a woodchuck could chuck	
	- 40	#
	Input 2: He would chuck, he would, as much as he could, and chuck as much wood	
	as a woodchuck would. If a woodchuck could chuck wood.	



Final Assessment Test - June 2023

Course: ITA6009 - Cloud Computing

Class NBR(s): 0276 / 0300 / 0534

Time: Three Hours

Slot: E2+TE2

Faculty Name: Prof. BENJULA ANBU MALAR M B / Prof. KRISHNAMOORTHY N

Prof. ARUNKUMAR A

KEEPING MOBILE PHONE/SMART WATCH, EVEN IN "OFF" POSITION IS TREATED AS EXAM MALPRACTICE

Answer any TEN Questions

 $(10 \times 10 = 100 \text{ Marks})$

Netflix has been one of the biggest success stories in movies and television. It has revolutionized how people watch TV and the company has been hugely successful at it. In fact, Netflix is now worth more than \$100 billion! But how did Netflix get to this point? How cloud computing changed the face of Netflix and give its uses of cloud services?

Summarize about the NIST Cloud Computing Reference Architecture with a suitable diagram with an example.

Elucidate on the storage virtualization in the Banking sector. Diagramatically list the various services in the storage virtualization with a suitable example.

Explain the various Layered Cloud Architectural Development design for effective cloud computing environment and elucidate on the design challenges of inter clouds.

State the Cloud Differences in Perspectives of Providers, Vendors, and Users.
 Illustrate on the extended services in cloud computing. List the vendors of the each services.

Multiple people can store money in the one same bank. But every customer asset is totally different like one customer cannot have access to the other customer's money and account and different customers are not aware about each other's account balance and details etc. Help them out in provisioning server model, database model, application model etc in a multi-tenant deployment model.

List any five security issues in cloud computing. What are the baseline security practices for the SaaS environment and explain any two with the real time examples.

Explain the step by step Map Reduce working model for counting the number of words for the following tongue twister.

DEER BEAR RIVER.CAR CAR RIVER. DEER CAR BEAR. DEER BEAR RIVER.CAR CAR RIVER. DEER CAR BEAR 9. Suppose the Indian government has assigned you the task to count the population of India. You can demand all the resources you want, but you have to do this task in 4 months. Calculating the population of such a large country is not an easy task for a single person (you). So what will be your approach? Explain with a suitable diagram on a Mapper and Reducer scalable model.

In what way the cloud based high performance computing is involved in the AWS and Google cloud's. Give its use-cases and components.

Which particular service model defines the boundary between the responsibilities of service provider and customer and show how different functional units are related to each other in cloud security alliances(CSA) stack model. Illustrate on it? Create a successful Google Application and deploy it in Google App Engine along with Google's Cloud data storage facility for App Engine Developers.

