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
1.	Assume that a resources are provided under peak demands. Illustrate how intergrid 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.	10
2.	A private owned Transportation enterprise having different zones for transportation and integrated a various department like workshop, online ticket, job scheduler, accounting, route allocation, purchasing and maintenance. The existing package is deployed in user premises. Now they planned to migrate to own cloud services, In this case help them out in provisioning server model, database model in a multi-tenant deployment model.	10
3.	Let us consider leading organization is providing the cloud services. Now the organization wishes to extend their services. They require your advice to state the differences in cloud perspectives of provider, vendors and users. Explain the extended services of the cloud and elaborate on their providers.	10
4.	Consider that a Amazon EC2 instances works over a 8 weeks timeline has a total uptime of 800 hours and a total downtime of 205 hours with 4 failures in this timeline.	
	a) Calculate the computing availability	6
	b) Calculate the failure rate (λ) for the above different scenarios.	4
5.	Explain the step by step mapreduce working model for the counting number of words for the following tongue twister. Input1: How much wood would a woodchuck chuck, if a woodchuck could chuck wood? 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.	10