Examination 2024

Name of the Program: BTech(CSE)

Name of the Paper. Virtualization and Cloud Computing

Time: 3 Hours

Semester: A Course Code: 1CS-451 Maximum Marks, 100

Note:

- (i) All questions are compulsory.
- (ii) Answer any two sub-sections among a, b, and c in each main question.
- (iii) Total marks in each main question are twenty
- (iv) Each question carries ten marks.

Q.1	$(10 \times 2 = 20 \text{ Marks})$		
(a)	Differentiate between Cluster and Grid computing.	CO-1	1
(b)	Explain Public, Private and Hybrid Cloud in detail.		
(c)	Discuss about the different stakeholders in cloud computing.		
Q.2	$(10 \times 7 = 70 \text{ Marks})$		
(a)	Discuss Amazon Web services		
(b)	and its customers with scalable, cost-effective, regulatory and HIPAA- compliant solutions. From the cloud to the edge, Philips speeds innovation, simplifies security and compliance, and increases efficiency in delivering innovative healthcare solutions by building on AWS. Analyze the benefits of Microsoft Azure, AWS, Google app engine, and, salesforce.com in the perspective of Philips. An IT company decides to provide free access to a public cloud dedicated to higher the perspective of the three cloud computing delivery models, SaaS, PaaS, or Iaas, and Iaas are the perspective of the three cloud computing delivery models, SaaS, PaaS, or Iaas, and Iaas are the perspective of Philips.		-2
	advantages. (10 X 2 = 20 Mar		
$\frac{Q.3}{(a)}$	Explain Green Cloud Computing Architecture.		
b) [C	Discuss Reference Model for MOCC. What do you understand by Market-Oriented Clomputing?	1	co-
bi bi	Vynk Music reduces computing costs by 60 percent and simplifies analytics by running it g data framework on the cloud. As part of Bharti Airtel Limited's digital portfolio in Individual Vynk Music is an audio streaming app and website with 72 million monthly active users the company uses cloud and virtualization as its big data platform. Analyze the pros and one of virtualization technology from the perspective of Wynk Music	dia.	***
	(10 X 2 = 20 Mg)	arks)	
4			
, Di	iscuss Cloud Management in detail.		
) Di	iscuss Cloud Management in detail. That is the importance of SLAs in cloud computing? Discuss Billing and Accourance of cloud computing. The pects of cloud computing provider, Telstra, needed to expand its live streaming services ustralian telecommunications provider.	nting	

	Telstra can scale and improve capacity to support 10,000 simultaneous live streams. Analyze the Service load balancing architecture from the perspective of Telstra with the suitable case study.	
Q.5	(10 X 2 = 20 Marks)	
(a)	Discuss the role of Cloud computing in IOT and Machine Learning.	
(b)	What is GitHub? Discuss how to create and use Github Repository.	CO-5
(c)	What kind of needs are addressed by Heterogeneous Clouds? Discuss.	