



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE & APP.

FOURTH SEMESTER – APRIL 2023

UCA/UCS 4603 – CLOUD COMPUTING

Date: 06-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

SECTION A - K1 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

1. Definitions

- a) Replication
- b) DynamoDB
- c) Clustering
- d) Inter-Session Interval
- e) Authorization

2. MCQ

- a) _____ shares the cloud infrastructure across the several organizations that has a common concern.

A. public cloud
B. private cloud
C. Hybrid cloud
D. community cloud
- b) _____ is an open source private cloud software for building private and hybrid clouds that are compatible with AWS.

A. CloudStack
B. OpenStack
C. NovaCompute
D. Eucalyptus
- c) In k mean Clustering Algorithm, each cluster is defined by _____.
A. Edge point
B. Centroid point
C. MinPts
D. Eps
- d) _____ is the number of requests that can be serviced per second.

A. Value
B. Session length
C. Throughput
D. None of the mentioned above
- e) _____ is an open authentication protocol that was developed at MIT.

A. Analytics mining

	B. Kerberos C. SAML-Token D. None of the mentioned above
SECTION A - K2 (CO1)	
	Answer ALL the Questions (10 x 1 = 10)
3.	Fill in the blanks
a)	_____ presents a virtual operating platform to a guest operating system.
b)	_____ is a compute service provided by Amazon.
c)	Clustering algorithm that works on the notions of density reachability and density connectivity is _____.
d)	_____ defines the transitions between different pages of an application and the proportion in which the pages are visited.
e)	_____ is an electronic version of a patient's medical history.
4.	True or False
a)	Load balancing distributes workloads across multiple servers to meet the application workloads.
b)	Decision Tree classification algorithm is an unsupervised learning method.
c)	Real Time Messaging Protocol (RTMP) is a protocol for streaming audio, video and data over the Internet.
d)	The time interval between two successive requests is called think time.
e)	Data integrity means that the data remains unchanged when moving from sender to receiver.
SECTION B - K3 (CO2)	
	Answer any TWO of the following (2 x 10 = 20)
5.	Write short notes on Virtualization.
6.	Illustrate Storage Services provided by AWS and GCP.
7.	Write about any two Classification algorithms of Big Data.
8.	Explain how Cloud Computing is used in Healthcare sector.
SECTION C – K4 (CO3)	
	Answer any TWO of the following (2 x 10 = 20)
9.	Distinguish various Cloud service models with its Characteristics and Benefits.
10.	Explain Compute Services provided by AWS and Microsoft Azure.
11.	Explain the work flow of a live video streaming application that uses multimedia cloud.
12.	Analyze the uses of Cloud Computing in the field of Education.
SECTION D – K5 (CO4)	
	Answer any ONE of the following (1 x 20 = 20)
13.	Compare any two Clustering algorithms in detail.
14.	Summarize Database Services in cloud computing.
SECTION E – K6 (CO5)	
	Answer any ONE of the following (1 x 20 = 20)
15.	Write various Load Balancing Models are implemented in cloud computing.
16.	Write about Cloud Security Architecture in detail.

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