

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.C.A., B.SC. DEGREE EXAMINATION – COMPUTER APPLICATIONS & COMP. SCI.**

**FOURTH SEMESTER – APRIL 2022**

**UCS/UCA 4603 – CLOUD COMPUTING**

Date: 23-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

**(10 x 2 = 20 Marks)**

**Q. No**

**Answer ALL questions**

- 1 State any two advantages of cloud computing.
- 2 What is resource pooling?
- 3 Define CDN.
- 4 Highlight the idea behind mapreduce concept.
- 5 List any two characteristics of Big Data.
- 6 What is information gain?
- 7 Define Workload mix.
- 8 Mention any one challenge in generating synthetic workloads.
- 9 What is multifactor authentication?
- 10 List any two objectives of auditing.

**PART – B**

**(5 x 8 = 40 Marks)**

**Answer ALL the questions**

- 11 (a) Explain the cloud deployment models with its purpose.  
(Or)  
(b) Describe any FIVE characteristics of cloud computing with examples.
- 12 (a) Describe any two storage services offered by Amazon/Google.  
(Or)  
(b) Explain any two compute services offered by Amazon/Google.
- 13 (a) Describe Recommendation systems with real time use cases.  
(Or)  
(b) Explain the construction of decision trees with focus on random forest.

14 (a) Why is benchmarking significant for cloud applications?

(Or)

(b) Explain the types of tests needed in benchmarking.

15 (a) Explain the process of key management.

(Or)

(b) Compare symmetric and asymmetric encryption.

**PART – C**

**(2 x 20 = 40 Marks)**

**Answer any TWO questions**

16. (a) Explain Virtualization and replication strategies with neat diagrams.

(b) Describe any two database services in detail.

17. (a) Describe the concept of clustering with focus on k-Means.

(b) Elaborate the steps involved in deployment prototyping for a cloud application.

18. (a) Elucidate the usage of cloud technology in Education domain.

(b) Explain Video streaming and any two protocols associated with it.

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