



Date:

Registration number:

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27
BIG DATA ANALYTICS - III SEMESTER
SEMESTER EXAMINATION: OCTOBER 2021
(Examination conducted in January-March 2022)
BDA 3421 – DATA ANALYTICS ON CLOUD

TIME: 2.5 HRS

MAX MARKS: 70

This question paper contains FOUR printed pages and THREE parts

PART A

Answer ALL questions

20 X 1 =20

1. Which characteristic of cloud, divides the server resources among different customers
 - a. Single-tenancy
 - b. On demand usage
 - c. Elasticity
 - d. Shared hosting

2. Which deployment model is used by a single organization?
 - a. Community
 - b. Private
 - c. Public
 - d. Hybrid

3. Which cloud delivery model is considering software as product and available to consumer?
 - a. SaaS
 - b. PaaS
 - c. IaaS
 - d. WaaS

4. The CRM is an example of which cloud delivery model?
 - a. IaaS
 - b. PaaS
 - c. SaaS
 - d. WaaS

5. Which is an example of IaaS?
 - a. Salesforce
 - b. Windows Azure
 - c. AWS
 - d. Cisco WebEx

6. A group of separate hosts can be tied together represented to guests as a single virtual host is called?
 - a. Emulation
 - b. Aggregation
 - c. Isolation
 - d. Sharing

7. Which execution-virtualization technique is implemented on top of an existing OS which has full control of the hardware?
 - a. System level
 - b. Process-level
 - c. Program-level
 - d. Hardware-level

8. Paravirtualization is related to which cloud platform?
 - a. VMware
 - b. KVM
 - c. Hyper-V
 - d. Xen

9. Which is NOT applicable to VMWare?
 - a. full virtualization
 - b. hypervisor-I
 - c. hypervisor-II
 - d. X86

10. Which is a kernel based virtual machine?
 - a. VMware
 - b. KVM
 - c. Hyper-V
 - d. Xen

11. Which is a cloud infrastructure mechanism?
 - a. Resource Management System
 - b. Virtual server
 - c. SLA
 - d. load balancer

12. Which is not a measurement of cloud network traffic & message metrics?
 - a. bandwidth
 - b. latency
 - c. throughput
 - d. messages

13. Which load balancer distribution function has higher processing capacities?
- Workload prioritization
 - content
 - asymmetric
 - content-aware
14. Which is NOT a specialized cloud mechanism?
- load balancer
 - SLA Monitor
 - Audit Monitor
 - cloud storage device
15. Which is combining IT resources that are geographically diverse can be logically into group?
- Resource allocator
 - Resource combiner
 - Resource cluster
 - Hypervisor
16. Which is known as secret key cryptography?
- symmetric encryption
 - asymmetric encryption
 - hashing
 - digital coding
17. What are techniques involved in creation of digital signature?
- symmetric & asymmetric
 - hashing & asymmetric.
 - symmetric & hashing
 - only hashing
18. Which component of identity/access management is used for resetting the passwords?
- credential management
 - user management
 - authorization
 - authentication
19. Which mechanism enables one cloud service consumer to be authenticated by a security broker?
- cloud based security group
 - IAM
 - single sign-on
 - PKI

20. Which is placed between virtual server image and resource management system?
- hardened virtual server image
 - security policy
 - VIM
 - VM Image repository

PART B

Answer ANY SIX questions

6 X 5 = 30

- Discuss any five characteristics of cloud.
- Explain any two cloud delivery model with example
- Justify the statement with two features: 'Virtualization of the execution environment ensures wider range of features'
- Describe the architecture and components of Microsoft Hyper-V with neat diagram
- Define failover system. Discuss about its configurations
- Explain the taxonomies of virtualization
- What is resource cluster? Explain any three types of resource cluster?
- Differentiate symmetric and asymmetric encryption used in cloud security?

PART C

Answer ANY TWO questions

2 X 10=20

- Explain the components of cloud computing architecture with a neat diagram.
- Explain any ONE cloud management mechanism with a neat diagram
- Explain digital signature and hashing on cloud security mechanism