**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU -27**

Registration Number:

Date : 7-12-2022 ( 9 am)

**M.Sc. COMPUTER SCIENCE -III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

**CSDE9422: CLOUD COMPUTING AND INFORMATION STORAGE MANAGEMENT**

**Time: 2 ½ Hours Max Marks: 70**

**This paper contains 6 printed pages and 3 parts**

**PART-A**

**Answer the following questions (1\*15=15 marks)**

1. What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?
2. Distributed Computing
3. Cloud Computing
4. Soft Computing
5. Parallel Computing
6. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as \_\_\_\_\_\_\_resources to users.
7. Real
8. Cloud
9. Virtual
10. none of the mentioned
11. Which of the following is an essential concept related to Cloud?
12. Reliability
13. Abstraction
14. Productivity
15. All of the mentioned
16. Which one of the following is a Cloud Platform by Amazon?
17. Azure
18. AWS
19. Cloudera
20. All of the mentioned
21. Which one of the following a technology works behind the cloud computing platform?
22. Virtualization
23. SOA
24. Grid Computing
25. All of the above

6. Which of the following is not a type of cloud server?  
a. Public Cloud Servers  
b. Private Cloud Servers  
c. Dedicated Cloud Servers  
d. Merged Cloud Servers

7.Which of the following are the features of cloud computing?  
a. Security  
b. Availability  
c. Large Network Access  
d. All of the mentioned

8. Which of the following is a type of cloud computing service?  
a. Service-as-a-Software (SaaS)  
b. Software-and-a-Server (SaaS)

c. Software-as-a-Service (SaaS)  
d. Software-as-a-Security (SaaS)

9. Which of the following is an example of the cloud?  
a. Amazon Web Services (AWS)  
b. Drop-in box  
c. Costco Web  
d. All of the above

10. All cloud computing applications suffer from the inherent \_\_\_\_\_\_\_ that is intrinsic in their WAN connectivity.  
a. noise  
b. propagation  
c. latency  
d. all of the mentioned

11. Which of the following is the wrong statement about cloud computing?  
a. Private cloud doesn’t employ the same level of virtualization

b. Data centre operates under average loads  
c. Private cloud doesn’t pooling of resources that a cloud computing provider can achieve  
d. Abstraction enables the key benefit of cloud computing: shared, ubiquitous access

12.Which of the following is the most important area of concern in cloud computing?  
a. Scalability  
b. Storage  
c. Security  
d. All of the mentioned

13. An application that provides for transaction overflow in a reservation system is an example of \_\_\_\_\_\_\_\_\_\_\_\_  
a. cloud bursting  
b. cloud provisioning  
c. cloud servicing  
d. all of the mentioned

 14.Which of the following is owned by an organization selling cloud services?  
a. Public  
b. Private  
c. Community  
d. Hybrid

15. \_\_\_\_\_\_\_ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.  
a. IaaS  
b. SaaS  
c. PaaS  
d. All of the mentioned

**PART- B**

**Answer the following questions (5\*5=25)**

16 a) Define cloud computing and mention the advantages and disadvantages of cloud computing (5 marks)

Or

16 b) Compare and contrast between grid and cluster computing. (5 marks)

17 a) Write in detail about the concept of virtualisation with a neat diagram. (5 marks)

Or

17 b) What are different types of hypervisors? illustrate with a neat diagram each. (5 marks)

18 a) Write a note on load balancing and explain the different load balancing techniques. (5 marks)

Or

18 b) What is scaling in cloud computing? with an example each mention its types. (5 marks)

19 a) Explain the different cloud storage levels with the corresponding interfaces. (5 marks)

Or

19 b) How are unmanaged cloud storage different from managed cloud storage. give an example for a service provider in each of these categories. (5 marks)

20 a) Write a detailed note on threat agents. (5 marks)

Or

20 b) Write a note on the features of AWS. (5 marks)

**PART- C**

**Answer any THREE of the following questions (3\*10=30)**

21.Explain in detail about any three cloud deployment models

22.Write a detailed note on the features of:

a) SaaS

b) PaaS

c) IaaS

23.Explain any four cloud backup solutions with a mention of backup features.

24. Write short note on:

* 1. encryption,
  2. Hashing,
  3. Digital Signature