

(FOR THE CANDIDATES ADMITTED

22UAI412

DURING THE ACADEMIC YEAR 2022-2025 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY 2024

BSC.CS WITH AI & ML(SF)

MAXIMUM MARKS: 50

SEMESTER: IV

TIME : 3 HOURS

PART - III

22UAI412-CLOUD COMPUTING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)

1. Recall the type of cloud deployment model that involves a single organization using the cloud resources Exclusively_____
 - a. Public Cloud
 - b. Private Cloud
 - c. Hybrid Cloud
 - d. Community Cloud
2. Identify the correct definition of Cloud System Architecture_____
 - a. The physical layout of servers in a data center
 - b. The design and structure of cloud computing services
 - c. The configuration of networking hardware
 - d. The architecture of traditional on-premise systems
3. Recall the protocol that is commonly used for transferring files to and from cloud storage_____
 - a. HTTP
 - b. FTP (File Transfer Protocol)
 - c. TCP (Transmission Control Protocol)
 - d. SMTP (Simple Mail Transfer Protocol)
4. Identify the type of attack that involves in overwhelming a cloud service with excessive traffic, causing it to become unavailable_____
 - a) Phishing
 - b) Denial of Service (DoS)
 - c) Cross-Site Scripting (XSS)
 - d) Man-in-the-Middle (MitM)
5. Identify the primary usage of Google Cloud Storage_____
 - a) Document Editing
 - b) Video Streaming
 - c) File Storage
 - d) Social Networking

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define Grid computing.
7. Explain the need for Cloud Computing.
8. Infer the use of CouchDB.
9. Name a key component of Apache Hadoop for data processing.
10. Discuss the need for Microsoft Azure.

(CONTD 2)

SECTION – B (5 X 3 = 15 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)**

11. a) Distinguish between Public Cloud and Private Cloud.
(OR)
b) List the characteristics of Cloud Computing.
12. a) Briefly relate the factors for promoting Cloud Computing.
(OR)
b) List the key principles of Cloud Computing.
13. a) Justify the need for Network Attached Storage.
(OR)
b) List and explain any three other Cloud Services.
14. a) Cloud-based service providers should keep security anxieties in mind while providing services. List and justify the security anxieties.
(OR)
b) List and explain any three Cloud Computing Platforms.
15. a) Given a business scenario, how would you recommend the opportunities of utilizing Cloud Service to optimize operations?
(OR)
b) List the Cloud Services provided by Amazon.

SECTION – C (5 X 5 = 25 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Imagine a business considering the adoption of Cloud Computing. Explain how understanding the advantages and disadvantages would influence their decision-making process.
(OR)
b) Classify the three main Cloud Service Models. Provide examples of applications or services that fall under each category.
17. a) Analyze the key differences between Public Cloud, Private Cloud, and Hybrid Cloud deployment models. How do organizations decide which model is most suitable for their needs?
(OR)
b) Explore the dimensions of virtualization by providing a comprehensive analysis of its types and implications.
18. a) Evaluate the role of Cloud Data Stores in enabling scalable and flexible data storage solutions for modern applications.
(OR)
b) Analyze the current trends and innovations in Cloud Service Development tools.
19. a) Identify the fundamental risks associated with the adoption of Cloud Computing.
(OR)
b) Infer the role of Data Confidentiality, Integrity, and Availability (CIA) concerning cloud computing.
20. a) Microsoft has its cloud hosting services. Justify this statement by highlighting the cloud services provided by Microsoft.
(OR)
b) Analyze any three Google Applications that utilize cloud services.