B.Tech. DEGREE EXAMINATION, NOVEMBER 2023
Sixth Semester

18CSE467J – ENTERPRISE SYSTEMS
(For the candidates admitted from the academic year 2020-2021 & 2021-2022)

Note:
(i) **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
(ii) **Part - B & Part - C** should be answered in answer booklet.

Time: 3 hours

Max. Marks: 100

PART – A (20 × 1 = 20 Marks)
Answer ALL Questions

		Marks	BL	CO	PO

1. A _____ database does not user pointers, but instead finds related records by examing the contents of the field. — Marks 1, BL 1, CO 1, PO 1
   (A) Network   (B) Hierarchical
   (C) Relational   (D) Object oriented

2. The purpose of JSP in enterprise system is to _____ . — Marks 1, BL 2, CO 1, PO 1
   (A) Design user interface   (B) Manage server side data
   (C) Execute server side scripts (D) Perform client side validation

3. What is the role of PHP in MVC architecture? — Marks 1, BL 1, CO 1, PO 1
   (A) It handles user interface (View)
   (B) It handles the business logic (Model)
   (C) It handles communication between user interface and business logic (controller)
   (D) It is not used in MVC

4. _____ is the main programming language used in .Net framework? — Marks 1, BL 1, CO 1, PO 1
   (A) Java   (B) Python
   (C) C#   (D) Javascript

5. _____ is cost accounting in an ERP system. — Marks 1, BL 1, CO 2, PO 1
   (A) Resource allocation   (B) Financial reporting
   (C) Purchase order   (D) Controlling

6. Which is not a characteristic of SOA? — Marks 1, BL 1, CO 2, PO 1
   (A) Services are loosely coupled   (B) Services are independent
   (C) Services are highly coupled   (D) Services are reusable

7. _____ is a framework for building web application using Ruby. — Marks 1, BL 1, CO 1, PO 1
   (A) Django   (B) Ruby on rails
   (C) Laravel   (D) Flash

8. _____ document is used in material management module for procurement of goods? — Marks 1, BL 1, CO 2, PO 1
   (A) Purchase order   (B) Sales order
   (C) Production order   (D) Invoice

9. Which is not a common feature of CRM system?   1 1 2 1
   (A) Sales automation   (B) Customer service
   (C) Human resource management (D) Marketing automation

10. What is the risk associated with poor supplier relationship management?   1 2 2 1
    (A) Increased supplier   (B) Decreased   supply   chain
        accountability   flexibility
    (C) Improved product quality (D) Decreased production cost

11. The purpose of encryption in enterprise security is to _____.   1 1 3 1
    (A) Verify identity of user   (B) Provide non-repudiation
    (C) Restrict access to specific (D) Encrypt sensitive data
        resources

12. The use of audit traits in enterprise security is to _____.   1 2 3 1
    (A) Verify identity of user   (B) Encrypt sensitive data
    (C) Monitor user activity   (D) Restrict access to specific
                                      resources

13. What is the software acquisition process?   1 1 3 1
    (A) The process of purchasing off (B) The process of developing
        the shelf software   custom software in house
    (C) The process of outsourcing (D) The process of open sourcing
        software development   software

14. What is the total cost of ownership (TCO)?   1 1 3 1
    (A) Cost of purchasing software (B) Cost of developing software in
                                        house
    (C) Total cost of using and   (D) Cost of outsourcing software
        maintaining software over its   development
        lifespan

15. _____ is a type of firewall which is typically the fastest and best for high   1 1 3 1
    traffic environments?
    (A) Packet filtering   (B) Stateful inspection
    (C) Application level gateway (D) Circuit level gateway

16. The main characteristic of MPLS is _____.   1 1 3 1
    (A) Connection oriented   (B) Circuit switched
    (C) Manage oriented   (D) Packet oriented

17. _____ types of disaster recovery site design involves a fully redundant   1 1 3 1
    replica of primary site?
    (A) Cold site   (B) Warm site
    (C) Hot site   (D) Mobile site

18. The _____ backup strategy involves backing up all data every time.   1 1 3 1
    (A) Full   (B) Incremental
    (C) Differential   (D) Continuous

19. The storage solution that provides block level access to data over a dedicated network is _____.

    (A) Network Attached Storage (NAS)

    (B) Direct Attached Storage (DAS)

    (C) Storage Area Network (SAN)

    (D) Cloud storage

    1 1 3 1

20. The server clustering that allows multiple server to share the same IP address and appear as single server to client is _____.

    (A) Active-active clustering

    (B) Active passive clustering

    (C) Load balancing clustering

    (D) Vitalization clustering

    1 1 3 1

PART – B (5 × 4 = 20 Marks)
Answer ANY FIVE Questions

	Marks	BL	CO	PO

21. Describe the key features of Microsoft .NET framework.

    4 1 1 1

22. Discuss the challenges and opportunities of implementing, SOA in large scale enterprise application.

    4 1 2 1

23. Discuss the advantages and disadvantages of different encryption technologies and their impact on system performance.

    4 1 3 1

24. Discuss the benefits and challenges of implementing EDI in supply chain management.

    4 1 3 1

25. Discuss the advantages and disadvantages of using single sign on (SSO) in enterprise systems.

    4 1 3 1

26. What are the types of backup strategies used in enterprise systems?

    4 1 3 1

27. How to data centers impact the availability, scalability, and security of enterprise systems?

    4 1 3 1

PART – C (5 × 12 = 60 Marks)
Answer ALL Questions

	Marks	BL	CO	PO

28. a. A banking institution is developing a new web application for their customers to access their account information, make transactions and view their statements. They are implementing the model view controller (MVC) architecture to separate the business logic from the presentation logic in a 3 tier environment – Analyze.

    12 2 1 4

(OR)

  b. A travel agency is planning to develop a new website to show case their travel packages and services. Provide a detailed explanation of how the travel agency can use server side scripting to enhance the functionality and user experience of their website.

    12 2 1 4

29. a. Explain the role of web services as the implementation protocols in SOA and their usage in enterprise application integration.   12   1   2   3

(OR)

b. Analyze the generic ERP module of HR and how it manages HR information, such as employee data, payroll etc.   12   2   2   4

30. a. Analyze the security issues related to authentication, authorization and access control in enterprise systems.   12   2   3   4

(OR)

b. Discuss the role of Supplier Relationship Management (SRM) in enhancing the relationship between business and their suppliers.   12   1   2   3

31. a.i. What are the advantages and disadvantages of using a VPN for a remote access?   6   1   3   3

ii. What is a firewall and how does it protect a network from unauthorized access?   6   1   3   3

(OR)

b. Suppose you are the IT manager for a large corporation that has employees working from home due to the Covid-19 Pandemic. How would you ensure that employees are not engaging in activities that could compromises the security of the company's network?   12   3   3   4

32. a. Define the concept of clustering and how it is implemented in enterprise systems. What are the benefits of clustering in enterprise systems?   12   1   3   3

(OR)

b. Imagine you are the network administrator for a university that needs to provide high speed internet access to students and faculty. How would you design LAN infrastructure to accommodate the need of a large and diverse user population.   12   3   3   4

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