

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF MANAGEMENT STUDIES

QUESTION BANK

I SEMESTER

BA3166 – MANAGEMENT INFORMATION SYSTEM

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UNIT – I – INTRODUCTION

SYLLABUS: Data, Information, Information System, Evolution, Types Based on Functions and Hierarchy, Enterprise and Functional Information Systems.

PART- A

S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Define data.	Remembering	Level 1	CO1
2.	Cite the meaning of information.	Understanding	Level 2	CO1
3.	List the components of an information system.	Remembering	Level 1	CO1
4.	Describe the role of information systems in organizations.	Understanding	Level 2	CO1
5.	Identify the characteristics of quality information.	Remembering	Level 1	CO1
6.	Differentiate between data and information.	Understanding	Level 2	CO1
7.	State the objectives of Management Information Systems (MIS).	Remembering	Level 1	CO1
8.	Discuss the importance of MIS in decision making.	Understanding	Level 2	CO1
9.	Enumerate the stages in the evolution of information systems.	Remembering	Level 1	CO1
10.	Paraphrase how information systems have evolved over time.	Understanding	Level 2	CO1
11.	Recall the different types of information systems based on functions.	Remembering	Level 1	CO1
12.	Classify information systems based on organizational functions.	Understanding	Level 2	CO1
13.	Name the information systems used at different organizational levels.	Remembering	Level 1	CO1
14.	Compare operational, tactical, and strategic information systems.	Understanding	Level 2	CO1
15.	Record the major functional areas supported by information systems.	Remembering	Level 1	CO1
16.	Cite the relationship between functional information systems and business functions.	Understanding	Level 2	CO1
17.	Label the levels of management in an organization.	Remembering	Level 1	CO1
18.	Give examples of information systems used at each management level.	Understanding	Level 2	CO1

19.	Match the appropriate information system with its organizational function.	Remembering	Level 1	CO1
20.	Summarize the benefits of enterprise information systems.	Understanding	Level 2	CO1
21.	Recall the features of Enterprise Information Systems (EIS).	Remembering	Level 1	CO1
22.	Indicate the significance of integrating enterprise-wide information systems.	Understanding	Level 2	CO1
23.	List the advantages of functional information systems.	Remembering	Level 1	CO1
24.	Interpret the role of enterprise systems in improving organizational performance.	Understanding	Level 2	CO1

	PART- B			
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Apply the concepts of data and information to illustrate how a retail organization can improve its decision-making process.	Applying	Level 3	CO1
2.	Analyze the differences between data, information, and knowledge in the context of organizational decision making.	Analysing	Level 4	CO1
3.	Articulate how the components of an information system interact to support business operations in a manufacturing firm.	Applying	Level 3	CO1
4.	Examine the role of information systems in enhancing organizational efficiency and effectiveness.	Analysing	Level 4	CO1
5.	Illustrate the applications of information systems at different management levels in a business organization with relevant examples.	Applying	Level 3	CO1
6.	Appraise on the information requirements at operational, tactical, and strategic management levels.	Analysing	Level 4	CO1
7.	Illustrate the application of functional information systems in supporting finance, marketing, and human resource activities.	Applying	Level 3	CO1
8.	Differentiate and analyze various types of information systems based on organizational functions and hierarchy.	Analysing	Level 4	CO1

9.	Illustrate on the concept of Enterprise Information Systems and its integration towards business processes across different departments.	Applying	Level 3	CO1
10.	Analyze the benefits and challenges of implementing Enterprise Information Systems in organizations.	Analysing	Level 4	CO1
11.	Demonstrate how Management Information Systems support managerial planning, controlling, and decision making.	Applying	Level 3	CO1
12.	Explain the impact of information systems on organizational performance and competitiveness.	Analysing	Level 4	CO1
13.	Apply the principles of information quality to evaluate business information used for decision making.	Applying	Level 3	CO1
14.	Examine the evolution of information systems and analyze their influence on modern business organizations.	Analysing	Level 4	CO1
15.	Illustrate the use of enterprise-wide information systems in improving organizational coordination and communication.	Applying	Level 3	CO1
16.	Appraise on the relationship between functional information systems and enterprise information systems.	Analysing	Level 4	CO1
17.	Articulate on the applications of information systems to solve business problems at different levels of an organization.	Applying	Level 3	CO1
18.	Analyze how information systems contribute to achieving organizational goals and strategic objectives.	Analysing	Level 4	CO1

UNIT – II – SYSTEM ANALYSIS AND DESIGN

SYLLABUS: System Development Methodologies, Systems Analysis and Design, Data Flow Diagram (DFD), Decision Table, Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML Diagram.

PART- A				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Define System Development Methodology.	Remembering	Level 1	CO2
2.	Explain the purpose of System Development Methodologies.	Understanding	Level 2	CO2
3.	List the phases of the System Development Life Cycle (SDLC).	Remembering	Level 1	CO2

4.	Describe the activities involved in the analysis phase of SDLC.	Understanding	Level 2	CO2
5.	Identify the objectives of Systems Analysis.	Remembering	Level 1	CO2
6.	Discuss the importance of Systems Design in system development.	Understanding	Level 2	CO2
7.	Recall the commonly used system development methodologies.	Remembering	Level 1	CO2
8.	Compare the Waterfall and Agile methodologies.	Understanding	Level 2	CO2
9.	Enumerate the components of a Data Flow Diagram (DFD).	Remembering	Level 1	CO2
10.	Explain the significance of DFDs in system analysis.	Understanding	Level 2	CO2
11.	Name the symbols used in a Data Flow Diagram.	Remembering	Level 1	CO2
12.	Illustrate the flow of data using a Data Flow Diagram.	Understanding	Level 2	CO2
13.	Define a Decision Table.	Remembering	Level 1	CO2
14.	Describe the structure of a Decision Table.	Understanding	Level 2	CO2
15.	List the elements of an Entity Relationship (ER) model.	Remembering	Level 1	CO2
16.	Differentiate between entities, attributes, and relationships.	Understanding	Level 2	CO2
17.	Identify the symbols used in ER diagrams.	Remembering	Level 1	CO2
18.	Explain the purpose of ER modeling in database design.	Understanding	Level 2	CO2
19.	State the meaning of Object-Oriented Analysis and Design (OOAD).	Remembering	Level 1	CO2
20.	Discuss the advantages of OOAD in software development.	Understanding	Level 2	CO2
21.	Recall the different types of UML diagrams.	Remembering	Level 1	CO2
22.	Classify UML diagrams based on their purpose.	Understanding	Level 2	CO2
23.	List the benefits of UML in system development.	Remembering	Level 1	CO2
24.	Summarize the role of UML diagrams in software design and communication.	Understanding	Level 2	CO2

	PART- B			
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level

1.	Apply the System Development Life Cycle (SDLC) to develop an information system for a retail organization.	Applying	Level 3	CO2
2.	Analyze the advantages and limitations of various System Development Methodologies used in organizations.	Analysing	Level 4	CO2
3.	Demonstrate the application of the Waterfall Model in developing a business information system.	Applying	Level 3	CO2
4.	Examine the differences between traditional and agile system development methodologies.	Analysing	Level 4	CO2
5.	Apply systems analysis techniques to identify user requirements for an online banking system.	Applying	Level 3	CO2
6.	Examine the significance of systems analysis and design in ensuring project success.	Analysing	Level 4	CO2
7.	Construct a Data Flow Diagram (DFD) for a library management system and explain its components.	Applying	Level 3	CO2
8.	Analyze the role of DFDs in understanding and improving business processes.	Analysing	Level 4	CO2
9.	Develop a Decision Table for a loan approval process based on given conditions and actions.	Applying	Level 3	CO2
10.	Analyze the effectiveness of Decision Tables in representing complex business rules.	Analysing	Level 4	CO2
11.	Construct an Entity Relationship (ER) diagram for a hospital management system.	Applying	Level 3	CO2
12.	Appraise on the importance of ER modeling in database design and data integrity.	Analysing	Level 4	CO2
13.	Apply Object-Oriented Analysis and Design (OOAD) concepts to model an e-commerce application.	Applying	Level 3	CO2
14.	Evaluate the advantages of OOAD over traditional structured analysis approaches.	Analysing	Level 4	CO2
15.	Develop a UML Use Case Diagram and Class Diagram for a student information system.	Applying	Level 3	CO2
16.	Illustrate the role of UML diagrams in facilitating communication among stakeholders during system development.	Analysing	Level 4	CO2
17.	Illustrate the application of systems design tools and techniques in developing an integrated business information system.	Applying	Level 3	CO2

18.	Explain how DFD, ER, Decision Table, OOAD, and UML collectively contribute to effective system development.	Analysing	Level 4	CO2
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UNIT – III – DATABASE MANAGEMENT SYSTEMS

SYLLABUS: DBMS – Types and Evolution, RDBMS, OODBMS, RODBMS. Data Warehousing, Data Mart, Data Mining.

PART- A				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Define a Database Management System (DBMS).	Remembering	Level 1	CO3
2.	Cite the purpose of a DBMS in organizations.	Understanding	Level 2	CO3
3.	List the major types of DBMS.	Remembering	Level 1	CO3
4.	Describe the evolution of database management systems.	Understanding	Level 2	CO3
5.	Identify the characteristics of a Relational Database Management System (RDBMS).	Remembering	Level 1	CO3
6.	Differentiate between DBMS and RDBMS.	Understanding	Level 2	CO3
7.	Recall the key components of an RDBMS.	Remembering	Level 1	CO3
8.	Discuss how tables and relationships are used in an RDBMS.	Understanding	Level 2	CO3
9.	Define Object-Oriented Database Management System (OODBMS).	Remembering	Level 1	CO3
10.	Discuss the features of an OODBMS.	Understanding	Level 2	CO3
11.	List the characteristics of Relational Object Database Management System (RODBMS).	Remembering	Level 1	CO3
12.	Compare OODBMS and RODBMS.	Understanding	Level 2	CO3
13.	Enumerate the advantages of RDBMS.	Remembering	Level 1	CO3
14.	Illustrate the relationship between objects and databases in OODBMS.	Understanding	Level 2	CO3
15.	Define Data Warehouse.	Remembering	Level 1	CO3
16.	Cite the purpose of a Data Warehouse in decision making.	Understanding	Level 2	CO3
17.	Identify the characteristics of a Data Warehouse.	Remembering	Level 1	CO3

18.	Classify the components of a Data Warehouse architecture.	Understanding	Level 2	CO3
19.	State the meaning of a Data Mart.	Remembering	Level 1	CO3
20.	Differentiate between a Data Warehouse and a Data Mart.	Understanding	Level 2	CO3
21.	Define Data Mining.	Remembering	Level 1	CO3
22.	Explain the significance of Data Mining in business analytics.	Understanding	Level 2	CO3
23.	List the common tasks performed in Data Mining.	Remembering	Level 1	CO3
24.	Summarize the benefits of Data Mining for organizations.	Understanding	Level 2	CO3

PART- B				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Apply DBMS concepts to design a database solution for a university management system.	Applying	Level 3	CO3
2.	Analyze the evolution of database management systems and their impact on organizational data management.	Analysing	Level 4	CO3
3.	Demonstrate the application of DBMS features in managing data efficiently within a business organization.	Applying	Level 3	CO3
4.	Analyze the advantages and limitations of different types of DBMS.	Analysing	Level 4	CO3
5.	Apply relational database concepts to develop a database structure for an online retail store.	Applying	Level 3	CO3
6.	Analyze the characteristics of RDBMS that make it suitable for business applications.	Analysing	Level 4	CO3
7.	Construct a relational database schema using tables, keys, and relationships for a banking system.	Applying	Level 3	CO3
8.	Differentiate and analyze DBMS, RDBMS, OODBMS, and RODBMS with suitable examples.	Analysing	Level 4	CO3
9.	Illustrate the application of OODBMS in handling complex multimedia and engineering data.	Applying	Level 3	CO3
10.	Analyze the benefits and challenges of implementing OODBMS in modern organizations.	Analysing	Level 4	CO3

11.	Apply RODBMS concepts to integrate object-oriented features with relational database structures.	Applying	Level 3	CO3
12.	Examine the similarities and differences between OODBMS and RODBMS.	Analysing	Level 4	CO3
13.	Develop a Data Warehouse framework for supporting strategic decision making in a multinational company.	Applying	Level 3	CO3
14.	Analyze the role of Data Warehousing in enhancing business intelligence and organizational performance.	Analysing	Level 4	CO3
15.	Illustrate the process of creating and utilizing Data Marts for departmental decision support.	Applying	Level 3	CO3
16.	Analyze the differences between Data Warehouses and Data Marts in terms of scope, usage, and benefits.	Analysing	Level 4	CO3
17.	Apply Data Mining techniques to discover useful patterns from a customer transaction database.	Applying	Level 3	CO3
18.	Analyze the significance of Data Mining in improving business decisions, customer relationships, and competitive advantage.	Analysing	Level 4	CO3

UNIT – IV – INTEGRATED SYSTEMS, SECURITY AND CONTROL

SYLLABUS: Knowledge Based Decision Support Systems, Integrating Social Media and Mobile Technologies in Information System, Security, Vulnerability, Disaster Management, Computer Crimes, Social Engineering and Ethical Hacking, Securing the Web.

PART- A				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Define DSS.	Remembering	Level 1	CO4
2.	How the Decision Support System be used for?	Remembering	Level 1	CO4
3.	Summarize few benefits of a Decision Support System.	Understanding	Level 2	CO4
4.	Define vulnerability in information System.	Remembering	Level 1	CO4
5.	Recall the term hacking.	Remembering	Level 1	CO4
6.	Classify the types of internet security.	Understanding	Level 2	CO4
7.	Define the term malicious software.	Remembering	Level 1	CO4
8.	List the security aspects of information.	Understanding	Level 2	CO4
9.	Illustrate the term social networking with an example.	Remembering	Level 1	CO4
10.	Cite the purpose of social networking.	Remembering	Level 1	CO4

11.	State Information Security & Control.	Understanding	Level 2	CO4
12.	Give outline about Vulnerability.	Remembering	Level 1	CO4
13.	List out the Causes for Vulnerabilities.	Remembering	Level 1	CO4
14.	Define the terms threats and controls for disaster Management.	Understanding	Level 2	CO4
15.	In which aspects the disaster management in Management Information Systems.	Remembering	Level 1	CO4
16.	Interpret the term cybercrime.	Remembering	Level 1	CO4
17.	Classify the types of cybercrimes.	Understanding	Level 2	CO4
18.	Define Cybercrimes.	Remembering	Level 1	CO4
19.	Illustrate the term cyber-Bullying.	Remembering	Level 1	CO4
20.	Define the term Phishing.	Remembering	Level 1	CO4
21.	Summarize the real time example of SQL injection.	Understanding	Level 2	CO4
22.	List the importance of Security Testing.	Remembering	Level 1	CO4
23.	Discuss the various methodologies in Security testing.	Understanding	Level 2	CO4
24.	Compare DOS and DDOS attack.	Understanding	Level 2	CO4

	PART- B				
S.NO	QUESTIONS		COMPETENCE	BT LEVEL	CO Level
1.	Apply your understanding of security threats to identify common risks faced by internet-supported information systems.		Applying	Level 3	CO4
2.	(i) Analyze the components of security in information systems.	(8)	Analyzing	Level 4	CO4
	(ii) Analyze the various controls that promote security for computer hardware, networks, software, and computerized data.	(8)			
3.	Apply your understanding to compile and explain the components of a Decision Support System (DSS) with examples.		Applying	Level 3	CO4
4.	Compare the methods used to secure web, intranets, and wireless networks and explain their effectiveness.		Analyzing	Level 4	CO4
5.	Compare and categorize the top 10 social networking sites based on their key services and user engagement methods.		Analyzing	Level 4	CO4

6.	Examine the advantages and disadvantages of social networking.	Applying	Level 3	CO4
7.	Analyze the process of ethical hacking and elucidate its advantages and disadvantages.	Analyzing	Level 4	CO4
8.	Analyze the concept of Vulnerability Management. How does it help in identifying, assessing, and mitigating security weaknesses in an information system?	Analyzing	Level 4	CO4
9.	Explain the various types of cybercrimes and their effects on individuals and organizations using real-world examples.	Applying	Level 3	CO4
10.	Differentiate the key attributes of security testing and explain how each attribute contributes to the protection of software systems.	Analyzing	Level 4	CO4
11.	Discuss the importance of web application security and the impact of common vulnerabilities on organizations.	Analyzing	Level 4	CO4
12.	Discuss the different types of security used to protect computer systems and information from harm, theft, and unauthorized access.	Applying	Level 3	CO4
13.	Demonstrate how application security techniques can be used to reduce risks in software applications.	Applying	Level 3	CO4
14.	Compare the functions of different cybersecurity devices used to protect individual systems and monitor application activity.	Analyzing	Level 4	CO4
15.	Examine a recent information security incident and analyze the security controls needed to prevent similar attacks.	Analyzing	Level 4	CO4
16.	Examine the different types of the vulnerabilities which can lead to a cyber-security attack.	Analyzing	Level 4	CO4
17.	Explain the role of social media and mobile technologies in enhancing communication and user engagement within an information system.	Applying	Level 3	CO4

UNIT – V – IT INITIATIVES

SYLLABUS: Introduction to Machine Learning and Deep Learning, Big Data, Pervasive Computing, Cloud Computing, Advancements in AI, Types of AI, IoT, Block Chain, Crypto Currency, Super Computing, Quantum Computing

PART- A				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	What is Deep learning?	Remembering	Level 1	CO5
2.	List the various methods of Deep learning.	Understanding	Level 2	CO5

3.	What are the applications of Deep Learning?	Remembering	Level 1	CO5
4.	Define Big data.	Remembering	Level 1	CO5
5.	Write few examples of big data.	Understanding	Level 2	CO5
6.	Write down the uses of pervasive computing.	Remembering	Level 1	CO5
7.	What is Cloud computing?	Remembering	Level 1	CO5
8.	What is the principle of pervasive computing?	Understanding	Level 2	CO5
9.	How big data is used by marketers to plan for social Media campaigns?	Remembering	Level 1	CO5
10.	What do you mean by Machine learning?	Remembering	Level 1	CO5
11.	What is Big Data, and where does it come from?	Understanding	Level 2	CO5
12.	Compare Crypto currency and bitcoin.	Understanding	Level 2	CO5
13.	What is the importance of Hadoop technology in Big data analytics?	Remembering	Level 1	CO5
14.	Summarize the components of Big Data analytics.	Remembering	Level 1	CO5
15.	How can IoT benefit the healthcare industry?	Remembering	Level 1	CO5
16.	What is Wireless LAN?	Remembering	Level 1	CO5
17.	Write down the aim of ubiquitous computing.	Remembering	Level 1	CO5
18.	Summarize the main components of the IoT architecture.	Understanding	Level 2	CO5
19.	How does block chain differ from a traditional database?	Remembering	Level 1	CO5
20.	What are the various applications of IOT?	Remembering	Level 1	CO5
21.	Define quantum Computing.	Remembering	Level 1	CO5
22.	What are the objectives of AI?	Remembering	Level 1	CO5
23.	How do you agree that the cloud computing is essential?	Remembering	Level 1	CO5
24.	Summarize the domains of AI.	Understanding	Level 2	CO5

PART- B				
S.NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Apply your understanding to determine the concept of deep learning and describe its common methods with	Applying	Level 3	CO5

	suitable examples.			
2.	Examine the applications of Deep Learning Networks with Pros and cons of DL.	Analyzing	Level 4	CO5
3.	Apply your understanding to explain how Big Data is utilized in real-world scenarios. Describe its key characteristics with relevant examples.	Applying	Level 3	CO5
4.	Apply your understanding to elaborate on the various applications of Big Data across different sectors with suitable examples.	Applying	Level 3	CO5
5.	Apply your understanding to explain the various principles involved in pervasive computing and illustrate its advantages with real-world examples.	Applying	Level 3	CO5
6.	Discuss in detail the applications of pervasive computing.	Applying	Level 4	CO5
7.	Apply your understanding to explain the infrastructure and technologies used in pervasive computing, highlighting how they support seamless and context-aware computing environments.	Applying	Level 3	CO5
8.	Apply your understanding to elaborate on the key issues related to pervasive computing, such as privacy, security, and device interoperability, with suitable examples.	Applying	Level 3	CO5
9.	Apply your understanding to discuss the various models of cloud computing and explain their advantages with relevant examples."	Applying	Level 3	CO5
10.	Examine the need and architecture of Cloud Computing with suitable diagram.	Analyzing	Level 4	CO5
11.	Examine the Challenges and opportunities in the application of IoT.	Analyzing	Level 4	CO5
12.	Apply your understanding to explain any three applications of the Internet of Things (IoT), such as Smart Home, Smart Appliances, Smart Cities, Smart Car, or Wearable Computing and Smart Gadgets, with suitable examples.	Applying	Level 3	CO5
13.	Apply your understanding to describe the importance of Artificial Intelligence (AI) and explain its various applications across different fields with relevant examples.	Applying	Level 3	CO5

14.	Discuss the Advancements in AI. And also write the meaning and definition or History of Artificial Intelligence.	Analyzing	Level 4	CO5
15.	Apply your understanding to explain the concept of cryptocurrency and describe its advantages and disadvantages with suitable examples.	Applying	Level 3	CO5
16.	(i) Discuss about the key areas of Block chain.	Analyzing	Level 4	CO5
	(ii) Discuss the selective benefits of Block chain that you know.			
17.	Apply your understanding to explain the concept of Quantum Computing and describe its major applications with suitable examples.	Applying	Level 3	CO5