

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF MANAGEMENT STUDIES

QUESTION BANK

I SEMESTER

BA 3166 – 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.	What is Data?	Remembering	Level 1	CO1
2.	Compare Data and information.	Understanding	Level 2	CO1
3.	What is Intelligence?	Remembering	Level 1	CO1
4.	What is an Information System?	Remembering	Level 1	CO1
5.	List the various applications of information technology.	Remembering	Level 1	CO1
6.	Summarize functional information system.	Understanding	Level 2	CO1
7.	List out the characteristics of Information.	Remembering	Level 1	CO1
8.	Explain the components of information system.	Understanding	Level 2	CO1
9.	Define Information Technology.	Remembering	Level 1	CO1
10.	How Information system transforms Business?	Remembering	Level 1	CO1
11.	What is your understanding of the advantages of Information systems?	Remembering	Level 1	CO1
12.	Outline the activities of information system.	Understanding	Level 2	CO1
13.	What is CBIS?	Remembering	Level 1	CO1
14.	Summarize the importance of IT.	Understanding	Level 2	CO1
15.	Define information system with an example.	Remembering	Level 1	CO1
16.	What is meant by Marketing Information System?	Remembering	Level 1	CO1
17.	Classify the components of Accounting Information System.	Understanding	Level 2	CO1
18.	Summarize the components of Financial Information System.	Understanding	Level 2	CO1
19.	Define Decision Support Systems	Remembering	Level 1	CO1
20.	Illustrate the Enterprise Information System	Understanding	Level 2	CO1
21.	Summarize the objectives of Enterprise Information Systems.	Understanding	Level 2	CO1
22.	Classify the components of HRIS?	Understanding	Level 2	CO1
23.	What is transaction processing system & Give some examples.	Remembering	Level 1	CO1

24.	What are the functionalities of HRIS	Remembering	Level 1	CO1
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PART- B				
S. NO	QUESTIONS	COMPETENCE	BT LEVEL	CO LEVEL
1.	Analyze the concept of Information Systems and examine.	Analyze	Level 4	CO1
2.	Analyze the hierarchical types of Information Systems and evaluate how each supports different levels of managerial decision-making.	Analyze	Level 4	CO1
3.	Apply your understanding of functional information systems to classify and explain their use in different business departments such as HR, Marketing, and Finance."	Applying	Level 3	CO1
4.	(i) Apply the concepts of data and information to demonstrate how raw business inputs are converted into useful decision-making tools. (8)	Applying	Level 3	CO1
	(ii) Apply the characteristics of information to evaluate the quality of reports used in business decision-making (8)			
5.	Analyze the components of Information Technology and explain how they interact to support business operations.	Analyze	Level 4	CO1
6.	(i) How would you use the components of DSS? (8)	Analyzing	Level 4	CO1
	(ii) List the steps involved in designing DSS? (8)			
7.	Apply the functions of ERP to demonstrate how it streamlines operations in a manufacturing or service organization.	Applying	Level 3	CO1
8.	Analyze the role of Transaction Processing Systems in business operations and explain how they influence efficiency and accuracy.	Analyzing	Level 4	CO1
9.	Apply the elements of ERP to demonstrate how they integrate business functions in an organization.	Applying	Level3	CO1
10.	Apply your understanding of functional information systems to illustrate how manufacturing and human resource information systems improve organizational performance.	Applying	Level 3	CO1
11.	Examine the development framework adopted for DSS with Suitable example.	Analyzing	Level 4	CO1
12.	Apply the concept of a Marketing Information System (MkIS) to show how it supports marketing decision-making in an organization. (8)	Applying	Level 3	CO1
	(ii) Discuss financial information system? (8)			

13.	Apply the four types of information-based decisions to demonstrate how each supports decision-making at different organizational levels.	Applying	Level 3	CO1
14.	Develop a suitable DSS for an organization with suitable illustration.	Applying	Level 3	CO1
15.	Examine the Accounting Information System and its applications in business context.	Analyzing	Level 4	CO1
16.	Apply the types of MIS to show how they support functional areas like marketing, finance, and HR.	Applying	Level 3	CO1
17.	Apply MIS in a business scenario to demonstrate how it aids in planning, control, and performance evaluation.	Applying	Level 3	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 the term system design.	Remembering	Level 1	CO2
2.	What do you mean by system analysis?	Understanding	Level 2	CO2
3.	Define DFD.	Remembering	Level 1	CO2
4.	List out the different levels of DFD.	Remembering	Level 1	CO2
5.	How the tools are utilized for system development?	Remembering	Level 1	CO2
6.	What is your understanding of SDLC?	Remembering	Level 1	CO2
7.	List the steps in SDLC.	Remembering	Level 1	CO2
8.	What do you mean by decision table.	Remembering	Level 1	CO2
9.	List the importance of feasibility study.	Remembering	Level 1	CO2
10.	How would you use Data flow diagrams (DFD)?	Remembering	Level 1	CO2
11.	Define Prototyping.	Understanding	Level 2	CO2
12.	List the functions of system flow chart.	Remembering	Level 1	CO2
13.	What are the various parts of decision table.	Remembering	Level 1	CO2

14.	What is the concept of Logical system design.	Remembering	Level 1	CO2
15.	Define the term OOAD.	Understanding	Level 2	CO2
16.	What do you mean by entities?	Remembering	Level 1	CO2
17.	List out any two functions of Entity relationship.	Remembering	Level 1	CO2
18.	Classify the various elements of DFD.	Understanding	Level 2	CO2
19.	Write down any two components of ER diagram.	Remembering	Level 1	CO2
20.	Show the UML diagram	Remembering	Level 1	CO2
21.	Interpret any two classifications of OOAD.	Understanding	Level 2	CO2
22.	What are the importance of OOAD Diagram?	Remembering	Level 1	CO2
23.	Demonstrate the techniques used in OOAD.	Understanding	Level 2	CO2
24.	List the types of UML diagram.	Remembering	Level 1	CO2

PART- B				
S. NO	QUESTIONS	COMPETENCE	BT LEVEL	CO Level
1.	Apply the concept of systems analysis and design to explain its applications in business process improvement.	Applying	Level 3	CO2
2.	Construct systems flow charts with symbols? Discuss with suitable example.	Applying	Level 3	CO2
3.	(i) Can you list and explain the various levels of DFD? (8)	Analyzing	Level 4	CO2
	(ii) How would you develop data flow diagram? Explain each step –in detail. (8)			
4.	Classify system development methodologies – State your inference.	Analyzing	Level 4	CO2
5.	List the components of ERD? Give an example for each?	Analyzing	Level 4	CO2
6.	Develop a UML sequence diagram for ATM?	Applying	Level 3	CO2
7.	(I) Apply UML concepts by constructing a class diagram and an object diagram for a simple real-world system. (8)	Applying	Level 3	CO2
	(II)Apply the RAD model to outline a system development plan for a time-bound software project. (8)			
8.	Compare and contrast the different types of structural UML diagrams in terms of their purpose and components.	Analyzing	Level 4	CO2
9.	Distinguish between design components and examine their roles in system development.	Analyzing	Level 4	CO2

10.	Demonstrate how object-oriented concepts are used in designing a real-world application.	Applying	Level 3	CO2
11.	Compare ER diagram symbols and examine their impact on database design and structure.	Analyzing	Level 4	CO2
12.	Construct a system flow chart for the inventory control system of an automobile company.	Applying	Level 3	CO2
13.	Write in detail about Decision Table. Construct decision table for a bookstore?	Applying	Level 3	CO2
14.	Outline a context level Data Flow Diagram for a University Student Enrollment and explain the process.	Analyzing	Level 4	CO2
15.	Examine an OOAD diagram for a car insurance system and highlight how object-oriented concepts apply.	Analyzing	Level 4	CO2
16.	Develop a Data Flow Diagram (DFD) and an Entity Relationship (ER) diagram for an online airline reservation system. Clearly define the processes, data stores, entities, and data flows. Also, explain how the system can be extended to incorporate fraud detection features.	Analyzing	Level 4	CO2
17.	As a system analyst, how would you use structured design tools such as Data Flow Diagrams (DFD) and Decision Tables to identify and rectify delays in a Management Information System (MIS) development project? Suggest how the use of proper system development methodologies could have helped avoid the delay.	Analyzing	Level 4	CO2

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 DBMS	Remembering	Level 1	CO3
2.	What are the three levels of abstraction?	Remembering	Level 1	CO3
3.	Can you list the categories of Data Model?	Remembering	Level 1	CO3
4.	What are attributes?	Remembering	Level 1	CO3
5.	List any eight applications of DBMS.	Remembering	Level 1	CO3

6.	Compare instance and schema?	Understanding	Level 2	CO3
7.	What are the types of Database?	Remembering	Level 1	CO3
8.	Define file organization	Remembering	Level 1	CO3
9.	What is the use of RDBMS?	Remembering	Level 1	CO3
10.	List out the applications of RDBMS?	Remembering	Level 1	CO3
11.	List the properties of transaction.	Remembering	Level 1	CO3
12.	Demonstrate the data dictionary with example?	Understanding	Level 2	CO3
13.	What is relationship? Give examples.	Remembering	Level 1	CO3
14.	How entity used in DBMS?	Remembering	Level 1	CO3
15.	Compare the terms i) DDL ii) DML	Understanding	Level 2	CO3
16.	List the Database Languages	Remembering	Level 1	CO3
17.	Tell in detail about deadlock.	Remembering	Level 1	CO3
18.	Define the term Timestamp.	Remembering	Level 1	CO3
19.	What do you mean by OODBMS	Remembering	Level 1	CO3
20.	Recall about Data mining	Remembering	Level 1	CO3
21.	Define Data Warehouse	Remembering	Level 1	CO3
22.	What are the Applications of Data warehousing?	Remembering	Level 1	CO3
23.	What are the association rules in data mining	Remembering	Level 1	CO3
24.	How the Data mining works and write its uses or applications?	Remembering	Level 1	CO3

PART- B				
S. NO	QUESTIONS	COMPETENCE	BT LEVEL	CO LEVEL
1.	Compare object-oriented databases with relational models and examine their use for large systems.	Analyzing	Level4	CO3
2.	Illustrate how recovery techniques are applied during system failures in critical applications.	Applying	Level3	CO3
3.	(I) Demonstrate how transactions are handled using two-phase commit in distributed databases.	Applying	Level3	CO3
	(II) Demonstrate the transaction states and apply the ACID properties to a banking system scenario.			

4.	What is deadlock? List the various approaches used to recover from deadlock.	Analyzing	Level 4	CO3
5.	Construct a neat diagram; explain the structure of a DBMS?	Applying	Level 3	CO3
6.	List the types of data models with example	Analyzing	Level 4	CO3
7.	How would you apply the concept of data integrity to ensure accurate data in a hospital management system? Illustrate your answer with examples of relevant integrity constraints.	Applying	Level 3	CO3
8.	Analyze various deadlock prevention schemes in operating systems. How do they differ in terms of resource allocation strategies and system overhead?	Analyzing	Level 4	CO3
9.	Analyze the key components of an RDBMS. How do normalization, keys, and relationships interact to ensure data consistency and minimize redundancy?	Analyzing	Level 4	CO3
10.	Analyze OODBMS in detail.	Analyzing	Level 4	CO3
11.	Analyze RDBMS in detail.	Analyzing	Level 4	CO3
12.	List out the Characteristics of Data Warehouse	Analyzing	Level 4	CO3
13.	Analyze the characteristics, construction, and working principles of an RDBMS. How do these elements contribute to data integrity, scalability, and efficient query processing in real-world applications?	Analyzing	Level 4	CO3
14.	Analyze the real-time applications of data mining across various industries.	Analyzing	Level 4	CO3
15.	List out the types of Data mart	Analyzing	Level 4	CO3
16.	Construct the Architecture of Data Mining and Interpret it	Applying	Level 3	CO3
17.	Apply the concept of a database by identifying its key features and explaining how they are used in real-world applications.	Applying	Level 3	CO3

UNIT – IV – INTEGRATED SYSTEMS, SECURITY AND CONTROL

SYLLABUS: Knowledge based decision support systems, Integrating social media and mobile technologies in Information system, Security, IS Vulnerability, Disaster Management, Computer Crimes, 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.	What do you mean by 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.	What is social networking? Illustrate with an example.	Remembering	Level 1	CO4
10.	What is the purpose of social networking?	Remembering	Level 1	CO4
11.	What is Information Security & Control? State its Objectives.	Understanding	Level 2	CO4
12.	What do you mean by 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.	What is cybercrime?	Remembering	Level 1	CO4
17.	Classify the types of cybercrimes.	Understanding	Level 2	CO4
18.	Define Cybercrimes.	Remembering	Level 1	CO4
19.	What do you mean by 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.	Summarize 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.	How to secure web, intranets and wireless networks? Elaborate.	Analyzing	Level 4	CO4
5.	Categorize are the top 10 social networking sites.	Analyzing	Level 4	CO4
6.	What are 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.	Apply your understanding to categorize various types of cybercrimes and explain how they affect individuals and organizations through real-world examples.	Applying	Level 3	CO4
10.	Compile the key attributes of security testing and explain how each attribute is applied to ensure the protection of software systems.	Applying	Level3	CO4
11.	Analyze why your organization needs web application security by identifying common vulnerabilities and assessing their impact on organizational operations and data integrity.	Analyzing	Level 4	CO4
12.	Apply your understanding to identify and explain the different types of security used to protect computer systems and information from harm, theft, and unauthorized access.	Applying	Level 3	CO4
13.	How Application Security Reduce Risks. Examine?	Analyzing	Level 4	CO4
14.	Which cyber security device is commonly used to protect individual systems and can also monitor application activity on the system?	Analyzing	Level 4	CO4

15.	Identifying the organization recently been in the news for some kind of IS security breach. Analyse its security plan and suggest the security measures.	Analyzing	Level 4	CO4
16.	What are the different types of the vulnerabilities which can lead to a cyber-security attack?	Analyzing	Level 4	CO4
17.	Apply your understanding to explain how social media and mobile technologies can be integrated into an information system to enhance communication and user engagement.	Applying	Level 3	CO4

UNIT –V– NEW IT INITIATIVES				
SYLLABUS: Introduction to Deep learning, Big data, Pervasive Computing, Cloud computing, Advancements in AI, IoT, Block chain, Crypto currency, 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 suitable examples.	Applying	Level 3	CO5
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 4	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.	List and explain the applications of pervasive computing.	Applying	Level 3	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	Applying	Level 3	CO5

	Gadgets, with suitable examples.				
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.	Explore 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) Identify the key areas of Block chain.	(8)	Analyzing	Level 4	CO5
	(ii) Write the selective benefits of Block chain that you know.	(8)			
17.	Apply your understanding to explain the concept of Quantum Computing and describe its major applications with suitable examples.	Applying	Level 3	CO5	