**MBA (TRAVEL AND TOURISM)**

**Semester III**

**INFORMATION SYSTEMS AND CYBER SECURITY**

**Part A. Short Answer Questions (4 Marks)**

1. Define Management Information System (MIS) and its key components.
2. Explain the role of MIS in enhancing organizational effectiveness.
3. Differentiate between transaction processing systems and information support systems.
4. What are the major components of MIS?
5. Describe the importance of MIS for a digital firm.
6. Briefly discuss the structure of MIS in an organization.
7. Explain the concept of system approach in the context of MIS.
8. Discuss the organizational and functional information requirements at different levels of management.
9. What are the existing cyber security vulnerabilities faced by digital firms today?
10. Explain the importance of cyber security in modern MIS environments.
11. What are Decision Support Systems (DSS) and how do they assist in decision-making?
12. What is the role of Executive Support Systems (ESS) in strategic decision-making?
13. Explain the concept of Knowledge Based Expert Systems (KBES).
14. Define enterprise-wide knowledge management systems and their uses.
15. What is cloud-based decision support?
16. Explain the role of databases in MIS.
17. What is a database model? Name any two types.
18. What are the capabilities of a Database Management System (DBMS)?
19. Discuss client-server architecture and its relevance in MIS.
20. What are firewalls? How do they contribute to MIS security?
21. What are the main steps in the system development life cycle (SDLC)?
22. Describe the prototype model of system development.
23. What is a Data Flow Diagram (DFD)? State its uses.
24. Explain the concept of structured system design.
25. What are the key tools and techniques used in system design?
26. Mention two key provisions under the Indian IT Act related to cybercrime.
27. What is the role of firewalls in securing MIS?
28. Define encryption with an example.
29. What is malicious software? Name two types.
30. Explain the meaning of cyber terrorism in the context of MIS.

**Part B. Long Answer Questions (10 Marks)**

1. Explain the structure of MIS and its role at different managerial levels.
2. Discuss how MIS impacts decision-making and strategic planning in organizations.
3. Evaluate the threats posed by modern cyber-attacks in MIS environments.
4. Explain the pros and cons of existing cyber mitigation techniques.
5. How does MIS support digital transformation and business agility?
6. Discuss the process of developing a DSS with examples.
7. Explain the working of Executive Support Systems and how they aid strategic decisions.
8. What is knowledge management? Explain the structure and benefits of knowledge work systems.
9. How do Group Decision Support Systems enhance collaborative decision-making?
10. Compare DSS, ESS, and GDSS in terms of functionality and application.
11. Discuss the importance and role of DBMS and RDBMS in MIS.
12. Explain how database models and client-server architecture support organizational MIS.
13. Evaluate the impact of big data analytics and cloud computing in modern information systems.
14. Analyze the legal landscape of cybercrime under the Indian IT Act.
15. What are the objectives of cyber law in protecting digital business systems?
16. Compare and contrast the prototype and classical SDLC approaches.
17. What are the critical tools and techniques of system analysis and design?
18. Explain how structured system design improves implementation success.
19. Discuss reasons for MIS implementation failures and how they can be minimized.
20. Describe the system development process from planning to deployment.
21. Discuss the significance of firewalls, intrusion detection systems, and antivirus software.
22. Explain encryption and public key infrastructure with examples.
23. Evaluate the risks and benefits of cloud-based MIS platforms.
24. How do mobile digital platforms create security issues for MIS?
25. Discuss the role of MIS in securing wireless networks and preventing data abuse.

**Part C. Essays (25 Marks)**

1. Define MIS and explain its structure, components, and role in supporting modern businesses.
2. Critically evaluate how MIS enhances organizational performance and competitiveness in a digital economy.
3. Analyze the current cybersecurity threats in MIS and assess how digital firms can mitigate them.
4. Discuss emerging cyber-attack patterns and their implications for enterprise MIS systems.
5. How does MIS contribute to decision-making, efficiency, and security in large organizations?
6. Explain the role of MIS in planning and control. Discuss how DSS, ESS, and GDSS work together to support decision-making.
7. Describe the development process of DSS and explain how knowledge-based systems and cloud computing support business decisions.
8. Evaluate enterprise-wide knowledge management systems and their role in intelligent decision support.
9. Discuss how intelligent techniques and expert systems are transforming enterprise decision-making.
10. Explain the role of cloud-based and mobile platforms in enhancing MIS-based decision-making in real time.
11. Describe in detail the architecture, features, and applications of DBMS and RDBMS in MIS.
12. Discuss the role of networking, communication technology, and client-server models in information systems.
13. Evaluate the legal framework under the Indian IT Act. Discuss how it combats cybercrime and secures digital business.
14. Examine the impact of cybercrime on MIS and explain the need for stronger cyber laws and digital surveillance.
15. Discuss the growing importance of cloud computing, data management, and big data analytics in future MIS development.
16. Describe the classical SDLC model and compare it with the prototype approach. Include advantages and limitations.
17. Explain the structured system design methodology and discuss major tools used in the process (DFD, data dictionary, etc.).
18. Critically examine the success and failure factors in MIS implementation projects.
19. What measures and techniques are essential for quality control in MIS development and deployment?
20. Describe the role of emerging technologies such as AI, IoT, and blockchain in modern MIS development.
21. Discuss the importance of securing MIS infrastructure. Explain technical solutions such as encryption, firewalls, and IDS.
22. Evaluate system vulnerabilities in cloud platforms and suggest strategies to enhance information security.
23. Discuss the challenges of mobile security in MIS and propose solutions to secure mobile transactions and access.
24. How does MIS address system availability, data integrity, and security in today's cloud-driven businesses?
25. Analyze the business value of cyber security, including legal, ethical, and technical perspectives for modern enterprises.