

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)

M.Tech

SEM: II - THEORY EXAMINATION (2025 - 2026)

Subject: Management Information System

Time: 3 Hours

Max. Marks: 70

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

15

1. Attempt all parts:-

- | | | |
|-------|--|---|
| (1.1) | What is the first step in the conceptual information systems design process? (CO1,K1) | 1 |
| | (a) Problem definition | |
| | (b) Setting system objectives | |
| | (c) Establishing system constraints | |
| | (d) Determining information needs | |
| (1.2) | What is the primary role of stakeholder engagement in MIS project management? (CO2,K1) | 1 |
| | (a) Setting project objectives | |
| | (b) Managing project timelines | |
| | (c) Providing user feedback | |
| | (d) Defining system components | |
| (1.3) | What is a key aspect of evaluating financial information systems? (CO3,K1) | 1 |
| | (a) Managing operational processes | |
| | (b) Assessing cost-effectiveness | |
| | (c) Balancing stakeholder interests | |
| | (d) Defining project objectives | |
| (1.4) | How does MIS support programmed decisions? (CO4,K1) | 1 |
| | (a) By providing predefined solutions | |
| | (b) By restricting data accessibility | |
| | (c) By promoting strategic planning | |
| | (d) By automating routine tasks | |

- (1.5) . Which type of organizations benefit most from virtual organizations supported by EWIS? (CO5,K1) 1
- (a) Brick-and-mortar businesses
 - (b) Small-scale enterprises
 - (c) Global and decentralized companies
 - (d) Non-profit organizations

2. Attempt all parts:-

- (2.1) Explain the importance of a systems approach in MIS. (CO1, K2) 2
- (2.2) What are dominant criteria and tradeoff criteria in the context of MIS subsystem definition? (CO2,K1) 2
- (2.3) Explain how production and operations information systems contribute to process improvement. (CO3, K2) 2
- (2.4) Describe the role of business intelligence in enhancing decision-making processes. (CO4, K2) 2
- (2.5) Describe the role of business analytics in uncovering actionable insights from data within EWIS. (CO5, K2) 2

SECTION-B

20

Answer any one of the following:-

- (3.1) Define and explain the importance of problem definition in MIS development. How does effective problem definition contribute to successful system design? (CO1,K3) 4
- (3.2) Explain the process of developing alternative conceptual designs in MIS. What factors should be considered when evaluating different design options? (CO1, K3) 4

Answer any one of the following:-

- (3.3) Discuss the role of project management in overseeing MIS development. How does effective project management ensure the timely and within-budget delivery of information systems? (CO2, K3) 4
- (3.4) Explain the significance of identifying dominant criteria and tradeoff criteria in MIS subsystem definition. How should organizations prioritize these criteria during design decision-making? (CO2, K3) 4

Answer any one of the following:-

- (3.5) Discuss the criteria used to assess the efficiency and effectiveness of financial information systems. How should organizations measure ROI and performance metrics for these systems? (CO3, K3) 4
- (3.6) Explain the role of data analytics in evaluating marketing information systems. How does data-driven marketing enhance customer targeting and campaign effectiveness? (CO3, K3) 4

Answer any one of the following:-

- (3.7) Describe the components of decision support systems (DSS) and their functions. How do these components work together to provide decision-makers with valuable insights and analytical tools? (CO4,K2) 4
- (3.8) Explain the concept of strategic planning in the context of information systems for decision-making. How does MIS contribute to strategic decision-making processes? 4

(CO4,K3)

Answer any one of the following:-

- (3.9) Discuss the integration between EWIS and Enterprise Resource Planning (ERP) systems. How does ERP facilitate data sharing and process automation within organizations? (CO5, K3) 4
- (3.10) Describe the characteristics and benefits of real-time organizations. How does real-time data processing enhance operational efficiency and responsiveness? (CO5, K3) 4

SECTION-C

35

4. Answer any one of the following:-

- (4.1) Discuss the steps involved in setting system objectives for MIS projects. How do well-defined objectives contribute to successful system design and implementation? (CO1, K3) 7
- (4.2) Discuss the role of information sources in developing conceptual designs for MIS. How should organizations evaluate and select appropriate sources for information gathering? (CO1, K3) 7

5. Answer any one of the following:-

- (5.1) Explain the significance of identifying dominant criteria and tradeoff criteria in MIS subsystem definition. How should organizations prioritize and evaluate design criteria to make informed decisions? (CO2, K3) 7
- (5.2) Discuss the challenges associated with defining subsystems and sources in MIS design. How can organizations ensure comprehensive subsystem definition to support system integration and interoperability? (CO2, K3) 7

6. Answer any one of the following:-

- (6.1) Explain the impact of production and operations information systems on manufacturing processes and supply chain management. How do these systems optimize resource utilization and process efficiency? (CO3,K3) 7
- (6.2) Describe the functions and benefits of personal information systems for individual productivity and task management. How can personal systems improve time management and organizational skills? (CO3, K3) 7

7. Answer any one of the following:-

- (7.1) Discuss the importance of data-driven decision-making in organizations. How can information systems facilitate data collection, analysis, and interpretation to support evidence-based decisions? (CO4, K3) 7
- (7.2) Explain how MIS supports programmed decision-making in organizations. Provide examples of routine decisions that can be automated or guided by information systems. (CO4, K3) 7

8. Answer any one of the following:-

- (8.1) Explain the concept of enterprise-wide information systems (EWIS) and their importance in modern organizations. How do EWIS integrate business processes and enhance organizational efficiency? (CO5, K3) 7
- (8.2) Explain the concept of virtual organizations and their alignment with EWIS. How do virtual organizations leverage technology to operate efficiently and flexibly? (CO5,K3) 7