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Subject Code:- AMTME0218

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

M.Tech

SEM: II - THEORY EXAMINATION (20..... - 20.....)

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-a. What is the primary purpose of Management Information Systems (MIS) in business? (CO1,K1) 1
- (a) Enhancing decision-making
 - (b) Managing human resources
 - (c) Developing marketing strategies
 - (d) Facilitating production processes
- 1-b. What is the primary outcome of subsystem definition in MIS design? (CO2,K1) 1
- (a) Documenting project timelines
 - (b) Clarifying project requirements
 - (c) Managing project risks
 - (d) Defining system components
- 1-c. . What is a key consideration in assessing production and operations information systems? (CO3,K1) 1
- (a) Assessing system performance
 - (b) Managing project timelines
 - (c) Defining project objectives
 - (d) Balancing stakeholder interests
- 1-d. . What is a key characteristic of non-programmed decisions? (CO4,K1) 1
- (a) Structured and repetitive

- (b) Predefined solutions
 - (c) Unstructured and unique
 - (d) Routine and operational
- 1-e. . 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.a. Define and explain the term "system constraints" in the context of MIS.(CO1,K1) 2
- 2.b. Explain the role of project management in ensuring successful MIS implementation. (CO2,K3) 2
- 2.c. Discuss the challenges of evaluating information systems in rapidly changing environments.(CO3,K2) 2
- 2.d. Discuss the benefits of using data visualization tools in decision support systems (DSS). (CO4,K2) 2
- 2.e. Define enterprise-wide information systems (EWIS) and explain their significance in modern organizations. (CO5,K3) 2

SECTION-B

20

3. Answer any five of the following:-

- 3-a. Discuss the systems approach in the context of MIS. How does adopting a systems approach benefit the design and implementation of information systems? (CO1,K2) 4
- 3-b. 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-c. Explain the concept of scalability in detailed MIS design. How does designing for scalability future-proof information systems against growth and expansion? (CO2,K3) 4
- 3-d. Describe the impact of detailed MIS designs on organizational performance and competitiveness. How can organizations measure the ROI of MIS investments and innovation? (CO2,K2) 4
- 3.e. Discuss the characteristics and functions of basic information systems. How do these systems support routine business operations? (CO3,K2) 4
- 3.f. 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.g. Discuss the ethical issues related to data security and privacy in EWIS implementation. How should organizations address these ethical concerns to 4

safeguard sensitive information? (CO5,K2)

SECTION-C

35

4. Answer any one of the following:-

- 4-a. Describe a case study of a company that implemented a management information system (MIS) successfully. Explain the steps involved in problem definition, setting system objectives, and developing conceptual designs. Evaluate the impact of the MIS on organizational efficiency and decision-making. (CO1,K3) 7
- 4-b. Conduct an information needs assessment for a specific industry or business sector. Identify key stakeholders, gather information requirements, and prioritize needs based on business objectives. Propose information system solutions to address the identified needs. (CO1,K3) 7

5. Answer any one of the following:-

- 5-a. Explain the importance of detailed information systems design in MIS development. How does detailed design contribute to the successful implementation of complex information systems? (CO2,K3) 7
- 5-b. Discuss the role of risk management in detailed MIS design and implementation. How can proactive risk mitigation strategies minimize project disruptions and delays? (CO2,K2) 7

6. Answer any one of the following:-

- 6-a. 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-b. Explain the impact of data analytics in evaluating marketing information systems. How can analytics-driven insights enhance customer targeting and campaign effectiveness? (CO3,K3) 7

7. Answer any one of the following:-

- 7-a. Explain the concept of tactical decision-making and its relationship with information systems. How can tactical decisions be supported by real-time data and analytics? (CO4,K3) 7
- 7-b. Describe the role of data visualization tools in enhancing decision support systems. How can visual representations of data improve understanding and communication of complex information? (CO4,K2) 7

8. Answer any one of the following:-

- 8-a. Discuss the role of integration with ERP systems in enterprise-wide information systems. How does ERP facilitate data centralization and standardization across functional areas? (CO5,K2) 7
- 8-b. 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