

Management Information Systems (MIS)

The comprehensive exam is composed of mcq's and short questions covering the following topics:

1. System Analysis and Design

Tools and techniques of planning, analyzing, designing, implementing and maintaining Information system.i.e

Systems Concept; Characteristics of a System; Elements of System; Types of Systems; Decision Support System; System Development Life Cycle, Investigation, Analysis, Design, Implementation, Post Implementation Review and Maintenance

Suggested Reading:

System Analysis and Design (9th Edition) by Kenneth E. Kendall and Julie E Kendall

2. Database Management System

Applications of systems designed to manage the data resources of organizations, hands-on implementation of a database in corporate environment. i.e

Introduction to Database; Organization of Database; Components of Database Management Systems; Data Models; Entity-Relationship Model; Network Data Model; Hierarchy Data Model; Relational Data Model; Advantages of DBMS.Relational Database Design: Integrity Constraints; Normalization; Physical Database Design

Suggested Reading:

Database Systems: A Practical Approach to Design Implementation, and Management by Thomas Connolly and Carolyn Begg. Addison Wesley

3. Data Communication & Network

It includes a detailed discussion of the different Network Models.i.e

Fundamentals of Communication System; Communication Links, Communication System Formats; Character Codes, Digital Data Rates; Asynchronous and

Synchronous Data, LAN topologies: Workstation; Server; Cables; Types of Ethernet; Broadband and base-band; Optical Fibers; Network Interface Card

Suggested Reading:

Data Computer Communication by William Stallings (10th Ed.)

4. E-Commerce

Current business models, strategies and opportunities in electronic publishing, communication, distribution, collaboration, and online payment options; Business to Business E-commerce; Business to Customer E-commerce, Explain what is Ecommerce, How E commerce works on the internet

Suggested Reading:

E-COMMERCE by Turban

5. Enterprise Resource Planning systems

Basic concepts of ERP systems, knowledge of typical ERP systems, and the advantages and limitations of implementing such systems

Suggested Reading:

Concepts in Enterprise Resource Planning by Monk, E. F., Wagner, B. J.

6. Business Information Technology & Information System Management

Topics covered include information technology planning and strategy, trends in computer hardware and systems software, telecommunications and network management, control and management of information resources, distributed and client-server technologies, and data representation and visualization

Suggested Reading:

James A. O'Brien, George M. Marak, Management Information System, Ninth Edition, McGraw-Hill, 2011

The comprehensive exam is designed to integrate and focus knowledge gained from the above courses and professional experience/reading. Questions asked reflect broad educational experiences and encourages the student to integrate knowledge. Examination questions are not course-specific or instructor specific.