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University of Lucknow MBA (DOC)

First Semester Examination, 2026

QUESTION BANK

Model Question Papers - 5 Sets (Set A - Set E)

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

Time : 3 Hours	Maximum Marks : 70

Answer any five questions. All questions carry equal marks.

Unit	Topic Coverage
I	Meaning and Characteristics; Computer Generations; Classification of Computers; Organization of Computer; Input and Output Devices; Storage Devices; Entity Relationship Diagrams, Data Flow Diagrams, Software Development Techniques and Models
II	Introduction to MIS, Managing Information Systems - the IT Interaction Model, Strategic Design of MIS, Development Process of MIS
III	Data and Information - Measuring Data, Information as a Resource, Information in Organizational Functions, Types of Information Technology, Types of Information Systems - Transaction Processing Systems, Management Information Systems
IV	Data Analytics Process and Lifecycle - Introduction to Data Analytics, Data Analytics Lifecycle, Steps in the Data Analytics Process, Role of Data Analysts, Descriptive, Predictive and Prescriptive Analytics, Real-World Applications
V	Data Cleaning and Preprocessing - Importance of Data Cleaning, Data Cleaning Techniques, Data Transformation and Normalization, Handling Missing Data and Data Quality

This question bank contains five model question papers (Set A to Set E), each with ten unified 14-mark questions balanced across all five units of the syllabus, prepared for practice ahead of the University of Lucknow MBA (DOC) First Semester Examination.

Compiled for internal examination preparation and practice.

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17101

MBA (DOC) First Semester Examination, 2026

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

[SET - A]

Time : 3 Hours] [M.M. : 70

Note :- Answer any five questions. All questions carry equal marks.

Q.1. Explain the meaning and characteristics of a computer, and discuss how modern computers differ from earlier calculating devices in terms of speed, accuracy, storage and versatility. **[14]**

Q.2. Trace the evolution of computers through their five generations, bringing out the key technological advancement, characteristic hardware and representative machines of each generation. **[14]**

Q.3. Explain the meaning, objectives and characteristics of a Management Information System, and discuss the role it plays in supporting managerial decision-making at various levels of an organization. **[14]**

Q.4. Discuss the process of managing information systems in an organization, and explain the IT interaction model that describes how information technology interacts with organizational structure, people and processes. **[14]**

Q.5. Explain the meaning of data and information, and discuss the various methods used for measuring data and evaluating the quality and usefulness of information. **[14]**

Q.6. Discuss the concept of information as an organizational resource, and explain why information is regarded as being as important as other resources such as capital, material and human resources. **[14]**

Q.7. Explain the meaning and importance of Data Analytics, and discuss the various stages involved in the Data Analytics Lifecycle. **[14]**

Q.8. Discuss the steps involved in the data analytics process, from discovery and data preparation to model planning, model building, communication of results and operationalization. **[14]**

Q.9. Explain the meaning and importance of data cleaning in the data analytics process, and discuss the consequences of using poor-quality data for analysis and decision-making. **[14]**

Q.10. Discuss the various data cleaning techniques used to identify and correct errors, duplicates and inconsistencies in a dataset. **[14]**

17102

MBA (DOC) First Semester Examination, 2026

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

[SET - B]

Time : 3 Hours] [M.M. : 70

Note :- Answer any five questions. All questions carry equal marks.

Q.1. Discuss the classification of computers on the basis of size, purpose and technology, distinguishing between microcomputers, minicomputers, mainframes and supercomputers, and between analog, digital and hybrid computers. **[14]**

Q.2. Explain, with the help of a suitable diagram, the organization of a computer system, and describe the functions performed by the Central Processing Unit, memory unit and input/output unit. **[14]**

Q.3. Explain the concept of strategic design of a Management Information System, and discuss the key considerations that must guide an organization while designing its MIS to support long-term business strategy. **[14]**

Q.4. Discuss the various stages involved in the development process of a Management Information System, from feasibility study and system analysis to design, implementation and maintenance. **[14]**

Q.5. Explain the role of information in various organizational functions, such as marketing, finance, production and human resources, with suitable examples of the type of information required in each function. **[14]**

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Q.6. Discuss the various types of information technology used by organizations, distinguishing between hardware technology, software technology, communication technology and data management technology. **[14]**

Q.7. Explain the role and responsibilities of a Data Analyst in an organization, and discuss the key skills required to perform this role effectively. **[14]**

Q.8. Explain the meaning of Descriptive Analytics and discuss, with suitable examples, how it is used to explore and summarise historical data for decision-making. **[14]**

Q.9. Explain the meaning and need for data transformation, and discuss the various techniques, such as aggregation, generalisation and attribute construction, used to transform raw data into an analysis-ready form. **[14]**

Q.10. Explain the meaning and importance of data normalization, and discuss the various normalization techniques used to bring numerical data onto a common scale before analysis. **[14]**

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MBA (DOC) First Semester Examination, 2026

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

[SET - C]

Time : 3 Hours] [M.M. : 70

Note :- Answer any five questions. All questions carry equal marks.

Q.1. Discuss the various input devices used in a computer system, such as keyboard, mouse, scanner and touch screen, and explain the criteria used for selecting an appropriate input device for a given application. **[14]**

Q.2. Discuss the various output devices used in a computer system, such as monitors, printers and plotters, and compare impact and non-impact printers in terms of speed, cost and print quality. **[14]**

Q.3. Explain how a Management Information System supports decision-making at the operational, tactical and strategic levels of management, giving suitable examples at each level. **[14]**

Q.4. Discuss the various components of a Management Information System, such as people, hardware, software, data and procedures, and explain how these components interact to achieve organizational objectives. **[14]**

Q.5. Explain the meaning and characteristics of a Transaction Processing System, and discuss its role in capturing and processing the day-to-day operational data of an organization. **[14]**

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Q.6. Discuss the meaning, objectives and characteristics of a Management Information System as a type of information system, and distinguish it from a Transaction Processing System. **[14]**

Q.7. Explain the meaning of Predictive Analytics and discuss how statistical and machine learning techniques are used to forecast future trends on the basis of historical data. **[14]**

Q.8. Explain the meaning of Prescriptive Analytics and discuss how it supports data-driven decision-making by recommending specific courses of action. **[14]**

Q.9. Discuss the various types of missing data that may occur in a dataset, and explain the techniques used to handle missing values before proceeding with analysis. **[14]**

Q.10. Explain the concept of data quality and discuss the key dimensions of data quality, such as accuracy, completeness, consistency, timeliness and validity. **[14]**

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MBA (DOC) First Semester Examination, 2026

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

[SET - D]

Time : 3 Hours] [M.M. : 70

Note :- Answer any five questions. All questions carry equal marks.

Q.1. Explain the meaning and types of storage devices used in a computer system, distinguishing between primary and secondary storage, and between magnetic, optical and solid-state storage media. **[14]**

Q.2. Explain the concept and purpose of an Entity Relationship Diagram in database design, and illustrate, with a suitable example, how entities, attributes and relationships are represented in such a diagram. **[14]**

Q.3. Explain the concept of the IT interaction model and discuss the challenges an organization faces in aligning its information technology investments with its overall business strategy. **[14]**

Q.4. Discuss the factors that an organization must consider while carrying out a feasibility study during the development of a Management Information System. **[14]**

Q.5. Explain the various types of information systems found in an organization, such as Transaction Processing Systems, Management Information Systems, Decision Support Systems and Executive Support Systems, bringing out their distinguishing features. **[14]**

Q.6. Discuss how the quality of information, in terms of accuracy, timeliness, relevance and completeness, affects the effectiveness of managerial decision-making. **[14]**

Q.7. Distinguish between Descriptive, Predictive and Prescriptive Analytics, bringing out the type of question each addresses and the kind of business decisions each supports. **[14]**

Q.8. Discuss the real-world applications of Data Analytics in various sectors such as retail, banking, healthcare and manufacturing. **[14]**

Q.9. Discuss the relationship between data cleaning and data transformation in the overall data preprocessing pipeline, and explain why both are necessary before data analytics can be performed. **[14]**

Q.10. Explain how poor data quality can affect the outcome of Descriptive, Predictive and Prescriptive Analytics, and discuss the measures an organization can take to improve data quality. **[14]**

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MBA (DOC) First Semester Examination, 2026

I.T. APPLICATIONS IN BUSINESS

Paper : MBA(F&A)CC-105 (CORE)

[SET - E]

Time : 3 Hours] [M.M. : 70

Note :- Answer any five questions. All questions carry equal marks.

Q.1. Explain the meaning and levels of a Data Flow Diagram, and discuss the symbols used to represent processes, data stores, data flows and external entities in such a diagram. **[14]**

Q.2. Discuss the various software development models, such as the waterfall model, prototyping model and spiral model, bringing out the situations in which each model is most appropriately used. **[14]**

Q.3. Explain the role of system analysis and system design in the development process of a Management Information System, bringing out the difference between the two stages. **[14]**

Q.4. Discuss the importance of user involvement and change management during the implementation of a new Management Information System in an organization. **[14]**

Q.5. Explain the relationship between data, information and knowledge, and discuss how raw data is transformed into meaningful information through processing. **[14]**

Q.6. Discuss the role played by Transaction Processing Systems in providing the data foundation on which higher-level Management Information Systems and Decision Support Systems are built. **[14]**

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Q.7. Explain the significance of understanding the Data Analytics Lifecycle before undertaking any data analytics project in an organization. **[14]**

Q.8. Discuss how organizations use Predictive and Prescriptive Analytics together to move from forecasting future outcomes to deciding the best course of action. **[14]**

Q.9. Discuss the challenges faced by organizations while cleaning and preprocessing large volumes of data collected from multiple sources. **[14]**

Q.10. Explain the meaning of data preprocessing and discuss its overall importance as a foundational step in the Data Analytics Lifecycle. **[14]**