

PRACTICE SET
End Semester Examination, December, 2025

Program: MBA

Semester: I

Course: Computer Application for Business

Course Code: 11CC.403

Course Outcomes:

Course Outcomes	Description
CO1	Demonstrate familiarity with key concepts and terminology used in the design, development, and operation of business application systems.
CO2	Evaluate various approaches through which Information Technology can enhance and support existing business operations and strategies.
CO3	Explore emerging technologies and assess their influence on the development of innovative business models, strategies, and processes.
CO4	Gain practical experience in utilizing productivity and application software to improve business efficiency and decision-making.
CO5	Integrate business concepts, Internet resources, and computer technology to design and execute real-world business projects.
CO6	Apply analytical and technical skills to design and develop basic information systems that address business requirements effectively.

UNIT I: Introduction to Computers

Section A (5 Marks each)

1. Define a computer system and discuss its main components. [CO1] [Remember] [LOT]
2. Trace the evolution of computers highlighting key generations. [CO1] [Understand] [LOT]

3. Classify computers based on size and purpose with suitable examples. [CO1] [Apply] [LOT]
4. Explain the major characteristics of computers that make them useful in business. [CO1] [Understand] [LOT]
5. Elaborate the significance of software in computer world. Differentiate between system and application software with examples. [CO1] [Understand] [LOT]
6. Convert the following Decimal numbers to Binary: 512, 62.8 [CO1] [Apply] [LOT]
7. Convert the following Binary numbers to Decimal: (10010), (10010.00101) [CO1] [Apply] [LOT]
8. Explain the different types of computer memory and enumerate their functions. [CO1] [Understand] [LOT]
9. Clarify Input and Output devices (two each) with examples. [CO1] [Apply] [LOT]
10. Illustrate how data is represented inside a computer using bits, bytes, and codes. [CO1] [Understand] [LOT]

Section B (10 Marks each)

11. Convert the following Binary numbers to Octal: (101010101), (010111000), (110001110), (101110001) [CO1] [Apply] [LOT]
12. Convert the following Octal numbers to Binary: 63, 57, 43, 36 [CO1] [Apply] [LOT]
13. Convert the following Binary numbers to Hexadecimal: (100100011110), (0010101011000111), (101011101111), (011110011100) [CO1] [Apply] [LOT]
14. Convert the following Hexadecimal numbers to Binary: BD6, FC8, 89B, ABC8 [CO1] [Apply] [LOT]
15. Present an analytical view of the functions of components of a computer system. Use appropriate block diagram. [CO1] [Analyze] [HOT]
16. Evaluate the relationship between hardware and software for efficient performance of a system. [CO2] [Evaluate] [HOT]
17. Analyze the impact of different generations of computers on modern technology. [CO3] [Analyze] [HOT]
18. Explain the Software Development Life Cycle (SDLC) in detail, including its definition, a well-labelled diagram, and a comprehensive explanation of each phase with suitable real-world examples. [CO4] [Analyze] [HOT]

Section C (20 Marks each)

19. Analyze the evolution of computer systems and propose possible features of the latest generation of computers. [CO3] [Create] [HOT]

20. Design a conceptual diagram showing data flow among input, process, storage, and output units in a business environment. [CO4] [Create] [HOT]

UNIT II: Operating System

Section A (5 Marks each)

21. Define an operating system and explain its main functions. [CO1] [Remember] [LOT]
22. Discuss different types of operating systems with examples. [CO1] [Understand] [LOT]
23. Compare multitasking and multiprocessing. [CO2] [Apply] [LOT]
24. Elaborate the concept of process management in an operating system. [CO2] [Understand] [LOT]
25. Explain memory management techniques used by modern OS. [CO2] [Apply] [LOT]

Section B (10 Marks each)

26. Present a comparative study of the advantages and disadvantages of various operating systems (Windows, Linux, MacOS). [CO3] [Evaluate] [HOT]
27. Analyze how operating systems handle multitasking for better system performance. [CO3] [Analyze] [HOT]
28. Evaluate the role of an OS in resource allocation and device management. [CO2] [Evaluate] [HOT]

Section C (20 Marks each)

29. Explain the following in brief:
- a) Batch Operating System
 - b) Serial Operating System
 - c) Multi-processor Operating System
 - d) Mobile Operating System
- [CO3] [Create] [HOT]
30. Discuss the evolution of operating systems from batch processing to multitasking with suitable examples. [CO3] [Analyze] [HOT]

UNIT III: Data Processing and File Management System

Section A (5 Marks each)

- 31.** Define data processing and explain its role in business applications. [CO1]
[Remember] [LOT]
- 32.** Describe different file types and their organization in file management. [CO2]
[Understand] [LOT]
- 33.** Explain the components of a Database Management System (DBMS). [CO2]
[Understand] [LOT]
- 34.** Discuss the importance of file utilities in efficient data handling. [CO3] [Apply]
[LOT]
- 35.** State the advantages of using databases instead of file systems. [CO3] [Understand]
[LOT]

Section B (10 Marks each)

- 36.** Analyze the impact of various database models on data storage and access. [CO3]
[Analyze] [HOT]
- 37.** Evaluate the advantages of DBMS over traditional file management systems. [CO3]
[Evaluate] [HOT]
- 38.** Discuss the various component of a database model. Use appropriate block diagram.
[CO4] [Evaluate] [HOT]

Section C (20 Marks each)

- 39.** Design a simple DBMS for a small business organization showing entity relationships. [CO5] [Create] [HOT]
- 40.** Compare file organization methods and propose the most efficient one for large-scale business use. [CO5] [Analyze] [HOT]

UNIT IV: Basic Elements of a Communication System

Section A (5 Marks each)

- 41.** State the concept of data communication and list its essential components. [CO1]
[Remember] [LOT]
- 42.** Explain different data transmission modes with examples. [CO2] [Understand]
[LOT]

43. Explain the significance of OSI model. List all its layers. [CO2] [Remember] [LOT]
44. Differentiate between the Internet, Intranet, and Extranet. [CO3] [Understand] [LOT]
45. Explain the terms: (a) E-mail (b) Search Engine. [CO4] [Apply] [LOT]

Section B (10 Marks each)

46. Demonstrate and explain the working of protocols – IP, HTTP, FTP and SMTP. [CO3] [Analyze] [HOT]
47. Compare different network topologies and their impact on communication efficiency. [CO3] [Evaluate] [HOT]
48. Evaluate the importance of protocols in ensuring smooth data transmission. [CO3] [Evaluate] [HOT]

Section C (20 Marks each)

49. Draw and explain major network topologies. Compare star and ring topologies with neat diagrams. [CO3] [Analyze] [HOT]
50. Propose upcoming technologies that could enhance Internet speed and reliability. [CO6] [Create] [HOT]

Summary Sheet

Course Outcomes (CO) Wise

CO	Q. No	Marks
CO1	1-10,11-15,21,22,31,41	120
CO2	16,23,24,25,28,32,33,42,43	55
CO3	17,26,27,34,35,36,37,44,46,47,48,1929,30,49	175
CO4	45,18,38,20	45
CO5	39,40	40
CO6	50	20
Total		455

Unit Wise

Unit	Q. No	Marks
Unit 1	1-20	170
Unit 2	21-30	95
Unit 3	31-40	95
Unit 4	41-50	95
Total		455

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1-10,11-14,21-25,31-35,41-45	165
HOT	15-18,19,20,26-30,36-40,46-50	290
Total		455

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Disclaimer: - This is a Practice Set. The Question in End term examination will differ from the Practice set. This Practice set is meant for practice only.