Course: B.Com(Computer Applications) I Year I Semester
Subject : Fundamentals of Information Technology
Unit wise Important Questions

UNIT I: Foundation of Computing, Business & Data Storage

A. Two-mark questions

1 Define digital transformation in business.

2 State any two roles of IT in business functional areas.

3 Differentiate between hardware and software.

4 What is the difference between RAM and ROM?

5 Define Artificial Intelligence (AI) and mention one business application.

B. Eight-mark questions

1 Explain digital transformation in business and discuss the strategic role of IT in different functional areas with suitable examples.

2 Describe the components of a computer system, including CPU, RAM, ROM, system software, and application software.

3 Explain the different input and output devices, including traditional devices, biometric devices, and IoT devices, with examples.

4 Explain bits, bytes, and data representation. Discuss the ethical and social aspects of computing.

5 Analyze the applications and business benefits of AI, Machine Learning (ML), Internet of Things (IoT), Blockchain, and Robotic Process Automation (RPA).

UNIT II: Data, Storage & Logical Foundations

A. Two-mark questions

1 What is a number system? Name any four number systems.

2 Define RAM and ROM.

3 Differentiate between SSD and HDD.

4 What are files, folders, and file extensions?

5 Define a database table and a database record.

B. Eight-mark questions

1 Explain binary, octal, decimal, and hexadecimal number systems with suitable examples.

2 Compare RAM, ROM, SSD, HDD, and flash drives based on their features, uses, and applications in business.

3 Explain the applications of cloud storage and local storage in business. Discuss their advantages and limitations.

4 Explain file systems and file organization, including files, folders, extensions, and naming conventions, with suitable examples.

5 Explain the conceptual database structure using tables, fields, and records. Describe how numeric, text, and date data can be organized in tabular form and used in business decision-making.

UNIT III: Software Applications for Business

A. Two-mark questions

1 Define an operating system and mention any two of its functions.

2 What is utility software? Give two examples.

3 What is mail merge in word processing?

4 Write the purpose of the SUM and AVERAGE functions in spreadsheets.

5 Define ERP and CRM.

B. Eight-mark questions

1 Explain the functions and types of operating systems, with examples of Windows, Linux, macOS, Android, and iOS.

2 Describe utility software, including antivirus, backup, file compression, and system-cleanup tools. Explain their importance in business.

3 Explain the major features of word-processing software, including formatting, tables, mail merge, and collaborative editing.

4 Demonstrate the use of SUM, AVERAGE, IF, and VLOOKUP functions in spreadsheets.

5 Explain enterprise software and discuss the modules and benefits of ERP, CRM, and business applications of DBMS.

UNIT IV: Networking & Internet in Business

A. Two-mark questions

1 Define LAN and WAN.

2 What is a network topology? Name any four types of network topologies.

3 State any two functions of routers and switches.

4 Define IP address and DNS.

5 Differentiate between wired and wireless data communication.

B. Eight-mark questions

1 Explain LAN, WAN, WLAN, and the Internet with their features, advantages, and business applications.

2 Explain star, bus, ring, and mesh network topologies with suitable diagrams, features, advantages, and limitations.

3 Describe the roles and applications of routers, switches, and modems. Explain the client-server architecture with a suitable business example.

4 Explain the fundamentals of the Internet, including IP addresses, DNS, URLs, web browsers, and search engines.

5 Explain e-commerce business models and the role of social media in business.

6 Compare wired communication (Ethernet and fiber) with wireless communication (Wi-Fi and Bluetooth), including bandwidth and speed concepts (bps, Mbps, and Gbps).

UNIT V: Cloud Computing & Cybersecurity

A. Two-mark questions

1 Define cloud computing and state any two of its advantages.

2 Expand SaaS, PaaS, and IaaS.

3 Differentiate between public cloud and private cloud.

4 What is phishing? Mention one preventive measure.

5 What is multi-factor authentication (MFA)?

B. Eight-mark questions

1 Explain the concept, characteristics, and advantages of cloud computing with suitable business examples.

2 Explain SaaS, PaaS, and IaaS service models, and compare public, private, and hybrid cloud deployment models with examples.

3 Explain malware, phishing, and DoS attacks. Discuss suitable preventive measures for each threat.

4 Describe the importance of strong passwords, multi-factor authentication, antivirus software, firewalls, data backup and recovery, and safe browsing practices in cybersecurity.

5 Explain the importance of cyber laws and data privacy regulations. Discuss the key features of the GDPR and India's Digital Personal Data Protection Act, 2023 (DPDP Act).