



End Term (Odd) Semester Examination November 2025

Roll no.....

Name of the Course and semester: Diploma 1st

Name of the Paper: Fundamentals of Information Technology

Paper Code: DTIT 104

Time: 3 hour

Maximum Marks: 100

Note:

- (i) All the questions are compulsory.
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

Q1. (2X10=20 Marks)

a. Explain in detail the organization and functions of a computer system. Draw a neat block diagram of a computer and discuss the role of each unit. CO1

b. Discuss the evolution of computers through different generations. Highlight the key technological developments and characteristics that distinguish each generation from the others. CO1

c. Define and differentiate any two from the following types of computers with suitable examples:

- a) Analog and Digital Computers
- b) General-purpose and Special-purpose Computers
- c) Mainframe, and Supercomputer

CO1

Q2. (2X10=20 Marks)

a. Differentiate between hardware and software. Explain the types of software with suitable examples. CO2

b. What is an Operating System (OS)? Discuss its functions, types, and classification. Explain the main elements of a GUI-based operating system with suitable examples. CO2

c. Explain the structure and working of the Central Processing Unit (CPU) in detail. Describe the roles of the Arithmetic Logic Unit (ALU), Control Unit (CU), and registers. CO2

Q3. (2X10=20 Marks)

a. What is MS Word? Describe the basic features and uses of MS Word in documentation. CO3

b. Explain how MS Excel can be used for data analysis and report generation. Describe with the help of examples, the use of formulas, functions, and charts in preparing meaningful reports. CO3

c. Explain the input and output devices of a computer system. Discuss the working and applications of devices such as scanners, MICR, OMR, barcode readers, and plotters. CO3

Q4. (2X10=20 Marks)

a. What is the Internet? Explain the basic services provided over the Internet, such as the World Wide Web (WWW), search engines, e-mail, and web browsers. Give suitable examples for each. CO4



End Term (Odd) Semester Examination November 2025

b. Describe the main components of a computer network, such as servers, workstations, network interface cards, hubs, switches, and cables. Explain how these components work together to establish communication between computers. CO4

c. Explain the different types of computer network topologies with neat diagrams and examples. Discuss the advantages, disadvantages, and applications of each topology. CO4

Q5. (2X10=20 Marks)

a. Discuss the applications of IT in Human Resource and Finance Management. How do HR systems and financial information systems improve the overall performance and productivity of an organization? CO5

b. What is Information Technology (IT)? Describe its importance and uses in modern business organizations. Give examples of how IT helps in marketing and production management. CO5

c. Discuss the main areas of computer applications in modern society. Explain how computers are used in education, healthcare, banking, and communication. CO1