

Reg. No.....

Name.....

**B A, B SC, B COM DEGREE END SEMESTER EXAMINATION - APRIL 2026****UGP (HONS.) SEMESTER - 2: DISCIPLINE SPECIFIC COURSE****COURSE: 24UCAPDSC105: INFORMATION TECHNOLOGIES***(For Regular 2025 and Improvement/Supplementary 2024 Admission)*

Time: 2 Hours

Max. Marks - 70

**PART A*****Answer any 5 questions. Each question carries 2 marks.***

1. Differentiate between primary and secondary memory. (U, CO1)
2. Write any two commonly used Linux commands and their purposes. (A, CO2)
3. Write any two advantages of using flowcharts. (A, CO3)
4. List the functions of an operating system. (A, CO2)
5. Differentiate between LAN and WAN. (U, CO4)
6. Program written in HLL is known as \_\_\_\_\_ (A, CO2)
7. Define the term "DBMS". (R, CO4)

**(2 x 5 = 10)****PART B*****Answer any 6 questions. Each question carries 5 marks.***

8. Write five Linux commands and explain their usage (A, CO2)
9. Write an algorithm and draw a flowchart to compute the sum of two numbers (A, CO3)
10. List and explain various components of software. (U, CO1)
11. Explain the three-schema architecture of a database system. (U, CO3)
12. Explain the different types of operating systems with examples. (A, CO2)
13. What is network security? Discuss two common network security threats. (U, CO4)
14. Write SQL commands to insert, update, and delete records in a table. (A, CO2)
15. With the help of a block diagram, Explain the functional units of a computer. (U, CO1)

**(5 x 6 = 30)****PART C*****Answer any 3 questions. Each question carries 10 marks.***

16. Trace the evolution of computers from the first generation to the fifth generation. Discuss the technological advancements, characteristics and examples of each generation.

(U, CO1)

17. Define computer network and explain the types of networks. **26U284**  
(U, CO4)
18. Write SQL commands to create a database for a hospital management system. Include tables for patients, doctors, and appointments. (A, CO3)
19. Explain the characteristics of the database approach. Design a database schema (A, CO3)

**(10 x 3 = 30)**

### Summary of Mapping

- CO1 (Explain basic concepts of Computers): Questions 1, 10, 15, 16
- CO2 (Analyse the concepts of operating system and Linux): Questions 2, 4, 6, 8, 12, 14
- CO3 (Describe the concepts of database and fundamental queries): Questions 3, 9, 11, 18, 19
- CO4 (Analyse the concepts of data communication, topology, categories of network, protocols, transmission modes): Questions 5, 7, 13, 17
- Cognitive Levels (CL):
  - U (Understand): Questions 1, 5, 10, 11, 13, 15, 16, 17
  - A (Apply): Questions 2, 3, 4, 6, 8, 9, 12, 14, 18, 19
  - R (Remember): Question 7
- Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER