Reg. No……………………………………….   Name………………………………………..……

B A, B SC, B COM DEGREE END SEMESTER EXAMINATION - APRIL 2025

UGP (HONS.) SEMESTER - 2: DISCIPLINE SPECIFIC COURSE

COURSE: 24UCAPDSC105: INFORMATION TECHNOLOGIES

(For Regular 2024 Admission)

Time: 2 Hours   Max. Marks - 70

PART A

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

1. Compare RAM and ROM   .   (U, CO1)
2. List the major functions of operating system.   (A, CO2)
3. Define the term "algorithm" and discuss any two characteristics.   (A, CO3)
4. Define operating system. Give two examples.   (A, CO2)
5. Briefly explain different types of language processors.   (A, CO3)
6. What does the *pwd* command do?   (A, CO2)
7. Define the term "URL".   (R, CO4)

PART B

Answer any 6 questions. Each question carries 5 marks.   **(6 x 5= 30 Marks)**

8. List and explain various components of system software.   (U, CO1)
9. Write an algorithm and draw a flowchart to compute the average of three numbers. (A, CO3)
10. Write a short note on:
    a) Bluetooth   b) Wi-Max   c) Satellites   (A, CO4)
11. Define DBMS and list the major components of a DBMS.   (A, CO3)
12. Explain about different components of SQL.   (A, CO3)
13. Explain the different generations of computer languages.   (A, CO3)
14. Explain the Three- Schema Architecture of DBMs.   (A, CO3)
15. Explain the functions of the following Network devices:
    a) Hub   b) Switch   c) Router   d) Repeater   c) Gateway   (A, CO4)

PART C

Answer any 3 questions. Each question carries 10 marks.   **(3 x 10= 30 Marks)**

16. Analyze the evolution of computers from the first generation to the fifth generation.
    What were the key technological advancements, characteristics, and examples
    of each generation   (U, CO1)
17. Explain the different types of memory in a computer system   (U, CO1)
18. Define network topology. Explain the network topologies with diagrams   (A, CO4)
19. Explain with a neat diagram, the functional units of a computer.   (U, CO1)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO1	Explain basic concepts of Computers	U	1,8,16,17,19	37
CO2	Analyse the concepts of operating system and Linux	A	2,4,6	6
CO3	Describe the concepts of database and fundamental queries	A	3,5,9,11,12,13,14	29
CO4	Analyse the concepts of data communication, topology, categories of network, protocols, transmission modes,	A	7,10,15,18	22

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER