Reg. No…… Name……

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

UGP (HONS.) SEMESTER - 2: MULTI DISCIPLINARY COURSE

COURSE: 24UCAPMDC101: COMPUTER HARDWARE AND ASSEMBLING

(For Regular 2024 Admission)

Time: 1 Hours Max. Marks - 35

PART A

Answer any 5 questions. Each question carries 2 marks (5x2= 10 marks)

1. Define the term "BIOS". (U, CO1)
2. Differentiate between analog and digital computers. (A, CO1)
3. Review the role of a rectifier in power supply systems. (U, CO2)
4. Describe the purpose of CMOS memory in a computer system. (U, CO3)
5. Distinguish between SIMM and DIMM. (A, CO4)
6. A magnetic disk has 200 cylinders, each with 20 tracks of 10 sectors. If each sector contains 128 bytes, calculate the maximum capacity of the disk in bytes. (A, CO4)
7. List any five point-and-draw devices. (U, CO5)

PART B

Answer any 3 questions. Each question carries 5 marks. (3x5= 15 marks)

8. Discuss the different generations of computers. (U, CO1)
9. Differentiate between online and offline UPS. (A, CO2)
10. Compare and contrast serial and parallel ports in a computer. (A, CO3)
11. Illustrate the working assembly of a Hard disk. (A, CO4)
12. Explain briefly the working of any three data scanning devices. (A, CO5)

PART C

Answer any 1 question. Each question carries 10 marks. (1x10= 10 marks)

13. Explain the basic components of a motherboard. (A, CO2)
14. Discuss the different classifications of ROM. (U, CO4)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Marks
CO1	Understand the evolution, classification, and fundamental architecture of computers.	U	1,2,8	9
CO2	Apply the knowledge of power supply systems like DC regulated power supply, SMPS, and inverters to understand their role in computer hardware.	A	3,9,13	17
CO3	Understand the types of expansion slots, connectors, and components involved in assembling a personal computer.	U	4,10	7
CO4	Apply the concepts of primary and secondary memory to explain data storage mechanisms and memory structures in a computer system.	A	5,6,11,14	19
CO5	Understand the working principles, types, and applications of various input and output devices used in computer systems.	U	7,12	7

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