Reg. No……. Name……..

BCA BCOM DEGREE END SEMESTER EXAMINATION - NOVEMBER 2025

UGP (HONS.) SEMESTER - 1: MULTI DISCIPLINARY COURSE

COURSE: 24UBCAMDE101: COMPUTER HARDWARE AND ASSEMBLING

(For Regular 2025 & Improvement/Supplementary 2024 Admission)

Time: 1 Hour Max. Marks: 35

PART A

Answer any 5 questions. Each question carries 2 marks.

1.	Identify the key features of workstation computers.	(R, CO1)
2.	Describe the key characteristics of third generation computers in comparison to previous generations.	(U, CO1)
3.	Recall the main internal hardware components of a computer.	(R, CO2)
4.	Explain the purpose of an expansion bus in a computer system and describe how the transition from ISA to PCI improved the computer's ability to handle new peripherals.	(U, CO3)
5.	State the functionality of the SATA connectors.	(U, CO3)
6.	Identify the device used for scanning forms, tests or surveys and the technology used.	(R, CO4)
7.	Describe how a computer mouse translates your physical hand movements into a cursor's movement on the screen.	(U, CO4)

(2 x 5 =10)

PART B

Answer any 3 questions. Each question carries 5 marks.

8.	Explain the booting process of a computer system?	(U, CO1)
9.	Differentiate between tracks, sectors and cylinders in hard disk platters and analyze how they are used by the R/W head in accessing the location of data on the disk.	(An, CO2)
10.	Illustrate the basic steps in PC assembling process.	(U, CO3)
11.	Analyze the features of a DVD-RW optical disk.	(An, CO3)
12.	Evaluate the use of MICR in banking systems.	(E, CO4)

(5 x 3 =15)

PART C

Answer any 1 question. Each question carries 10 marks.

13. Examine the working of SMPS in detail with the help of a diagram. (An, CO2)

14. Explain the key characteristics and classification of ROM used in different types of computers. (An, CO3)

(10 x 1 =10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Marks
CO1	To Learn the basics of computer generations and hardware components.	U	1,2,8	9
CO2	Demonstrate basic working principles of computer hardware components.	U	3,9,13	17
CO3	Perform PC assembling and installation and basic memory Concepts .	An	4,5, 10,11,14	24
CO4	Illustrate the concept of input and output devices of Computers.	E	6,7,12	9

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

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