

B A, B SC, B COM DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024
UGP (HONS.) SEMESTER - 1: MULTI DISCIPLINARY COURSE IN COMPUTER APPLICATIONS
COURSE: 24UCAPMDC101: COMPUTER HARDWARE AND ASSEMBLING

(For Regular 2024 Admission)

Time: 1 Hour

Max. Marks - 35

PART A

Answer any 5 questions. Each question carries 2 marks.

1. Review the role of the ALU (Arithmetic Logic Unit) in the CPU.
2. Describe the key functions of the input/output units in a computer system.
3. Differentiate between a UPS and an inverter.
4. Describe the purpose of CMOS memory in a computer system.
5. A magnetic disk has 100 cylinders, each with 20 tracks of 10 sectors. If each sector contains 128 bytes, what is the maximum capacity of the disk in bytes?
6. Describe the primary function of a barcode reader.
7. Differentiate between CRT and non-CRT displays.

PART B

Answer any 3 questions. Each question carries 5 marks.

8. Explain the functionality of the CPU in a computer.
9. Review the concept of Switched Mode Power Supply (SMPS).
10. Explain the various industry standard computer bus types.
11. Write short notes on PC memory units: SIMM, DIMM, and RIMM.
12. Explain any five data scanning devices.

PART C

Answer any 1 question. Each question carries 10 marks.

13. Explain the DC Regulated Power supply in detail with necessary diagrams.
14. Discuss the structure of a Hard disk with a neat diagram.
