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FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(CUFYUGP)

CSC1MN107 - COMPUTER HARDWARE ASSEMBLY

2024 Admission onwards

Maximum Time: 2 Hours | **Maximum Marks: 70**

Section A

All Question can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Define the term cache memory.
2	Highlight the differences between static RAM and dynamic RAM.
3	What is the purpose of the control unit in the CPU?
4	Why is electrostatic discharge safety important during hardware assembly?
5	How does cache memory improve system performance?
6	What are the primary functions of the input unit in computer organization?
7	Define BIOS and UEFI.
8	What is the role of the arithmetic and logic unit in the CPU?
9	Why is cable management important in PC assembly?
10	What does NVMe stand for, and how does it differ from SATA?

Section B

All Question can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Explain the memory hierarchy in computer systems.
12	Briefly explain the functionalities of components located on a motherboard.
13	What are the steps involved in assembling a PC?
14	Describe the different types of storage devices.
15	What is the significance of clock speed in a microprocessor?
16	Discuss the process of installing drivers for motherboard components.
17	How do single-core, dual-core, and multi-core processors differ in performance?
18	Explain the importance of diagnostics and maintenance in hardware troubleshooting.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Elaborate on the system configuration process and its importance in PC setup.
20	Describe common issues encountered during PC assembly and their troubleshooting methods.