

QP Code: D 112875		Total Pages: 1	Name:
		Register No.	
FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024			
(CUFYUGP)			
CSC1MN101 - EXPLORING COMPUTER BASICS AND COMPUTATIONAL THINKING			
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	What are the major differences between analog and digital computers?		
2	What is the significance of hexadecimal numbers in computer systems?		
3	What are mainframe computers, and what are their primary applications?		
4	Describe the role of the arithmetic and logic unit in a CPU.		
5	What are secondary storage devices? List and describe two examples.		
6	Explain the differences between HDMI and VGA ports.		
7	Explain the differences between system software and application software.		
8	Explain the role of different types of language translators in programming.		
9	Explain the difference between an algorithm and a flowchart.		
10	What is meant by computational thinking, and how does it relate to problem-solving?		
Section B			
All Question can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Discuss the key characteristics of computers and their importance in modern computing systems.		
12	Explain the significance of Gray Code in digital systems and how it can be converted from binary code.		
13	What are the key differences between primary memory and secondary memory?		
14	Compare and contrast different types of ROM in a computer system.		
15	Explain the functions of common input devices of a computer system.		
16	How does an operating system manage hardware, software, and resources in a computer system?		
17	What are the key characteristics that make an algorithm better?		
18	Discuss the benefits and limitations of using flowcharts in problem-solving.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Discuss the evolution of computers through various generations, explaining the key characteristics of each generation.		
20	Explain various computer codes such as BCD, Excess-3, ASCII, Unicode, and Gray Code, highlighting their importance in data representation.		