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 <div>SHARDA UNIVERSITY <i>Beyond Boundaries</i></div>		School of Computing Science and Engineering Department of Computer Science and Engineering				
Assignment-1, Session: 2026-2027 [Programme: B.Tech. CSE] [Semester: I]						
Course Title: Fundamentals of Computing and Artificial Intelligence Course Code: CSAI1101				Max Marks: 20		
Instructions:		1. All questions are compulsory 2. Assume missing data suitably, if any 3. All questions should be of higher learning.			BTL Level (K)	
Unit 1		CO1: Explain the fundamental concepts of computer systems, including hardware components, data representation techniques, and the evolution of programming languages.				
Unit 2		CO2: Apply visual thinking techniques and problem-solving strategies using tools such as mind maps, flowcharts, and pseudocode to analyze computational problems.				
Q.No.	Section A (4×3=12 Marks)			Unit	COs	K
1	Explain the electronic component that defines each of the first four generations of computers.			Unit 1	CO1	K1
2	Explain the three components of the CPU.			Unit 1	CO1	K2
3	State one difference between RAM and ROM.			Unit 1	CO2	K1
4	Write the ASCII codes (in decimal) of the characters `A` and `a`			Unit 1	CO2	K2
Section B (2×4=8 Marks)						
5	Convert (215) ₁₀ into binary, octal and hexadecimal.			Unit 1	CO1	K2
6	Add the binary numbers (1101) ₂ and (0110) ₂ ; verify your answer in decimal.			Unit 1	CO2	K2