18U	138	(Pages: 2)	Name:
			Reg. No.
FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018			
(Regular/Supplementary/Improvement) (CUCBCSS-UG)			
CC15U CSC1 C01 / CC17U CSC1 C01 - COMPUTER FUNDAMENTALS			
	(Com	nputer Science - Complementary	
(2015) Time: Three Hours		(2015 Admission onwards)	Maximum: 64 Marks
1 11110	e. Timee Hours		Maximum. 04 Marks
		PART - A	
Answer <i>all</i> questions. Each question carries 1 mark.			
1. The Hamming distance between two successive code groups in a cyclic code is			groups in a cyclic code is
2.	A + (A.B)=		
3.	stands at the top of the memory hierarchy.		
4.	holds the current instruction being executed.		
5.	The storage capacity of a single-sided, single-layer DVD is about		
6.	. MIDI stands for		
7.	Ais a vector graphics printing devices that can print graphical plots.		
8.	What is the common name used for a bar code reader?		
9.	9is an informal high-level description of the operating principle of an		
	algorithm.		
			$(9 \times 1 = 9 \text{ Marks})$
PART - B			
	Answer a	all questions. Each question car	ries 2 marks.
10	. Perform the following	<i>y</i> :	
	a) $(54)_8 = ()_2$	b) 1101.1 + 1011.1	
	c) (1000 - 11)	d) $(1A)_{16} = ()_{10}$	
11	. State and prove De M	forgan's theorem.	
12. Differentiate between volatile and non-volatile memories.			pries.
13	. What is DVD?		
14	. Define the term 'Algo	orithm'.	
			$(5 \times 2 = 10 \text{ Marks})$

PART - C

Answer any *five* questions. Each question carries 5 marks.

- 15. Describe different types of computer codes.
- 16. What is sequential logic circuit? How does it differ from the combinational logic circuit?
- 17. Briefly explain half adder and full adder in detail.
- 18. What are different form of ROM? Explain.
- 19. Distinguish between magnetic tape and magnetic disk.
- 20. What are pointing devices? Explain the functioning of three pointing devices.
- 21. What are scanners? List and explain various types of scanners.
- 22. What is a flowchart? Describe various symbols used in flowchart.

 $(5 \times 5 = 25 \text{ Marks})$

PART - D

Answer any *two* questions. Each question carries 10 marks.

- 23. Explain cache memory. Describe the memory mapping mechanism used in cache memory.
- 24. Briefly describe the different types of printer.
- 25. Draw flowchart/write algorithm to find greatest of three numbers.

 $(2 \times 10 = 20 \text{ Marks})$
