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Reg. No.....

Maximum: 64 Marks

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

Complementary Course

BCS-1C 01—COMPUTER FUNDAMENTALS

ime: Three Hours

			Part A	\		
		Answer	all q	iestions.		
I.	Cho	oose the correct answer from the choic	es give	en:		
	1.	In a flowchart a rhombus represents	; ·			•
		(a) Decision.	(b)	Connector.		
		(c) Terminal.	(d)	Process.	-	
	2	is an optical storage device.	•			
·		(a) Floppy.	(b)	Hard disk.		
		(c) CD.	(d)	None.		
	3.	1024 MB is equivalent to ———.				
		(a) 1 GB.	(b)	1 TB.		
		(c) 1 MB.	(d)	1 Byte.		
II.	Fill	in the blanks :				
	4.	MIDI stands for ———.				
	5.	In BCD, 10 ₁₀ is represented as ——	 -			
	6.	The binary equivalent of 25 ₁₀ is —	·			
III.	Sta	te whether the following statements a		ie or False :		
	7.	Floppy disk is not magnetic storage				
	8.	PROM is a volatile memory.				
	9.	DVD is a sequential storage device.				
	ð.	D , D in a nodacerowa				$(9 \times 1 = 9 \text{ mark})$

Part B

Answer all questions.

- 10. What is PROM?
- 11. Describe X-OR gate with logic diagram and truth table.
- 12. What is meant by non-positional number system.
- 13. Write a note on Plotter.
- 14. What is a parity bit?

 $(5 \times 2 = 10 \text{ marks})$

Part C

Answer any five questions.

- 15. Convert 168.75₁₀ to binary, Octal and Hexadecimal number systems.
- 16. Explain the principle of duality with example.
- 17. Explain any three secondary storage devices.
- 18. Differentiate Inkjet and Dot-matrix printers.
- 19. What is a Flowchart? Explain the different symbols used in flowchart.
- 20. Explain Memory Hierarchy.
- 21. Explain the different types of computer codes with examples.
- 22. Differentiate half adder and full-adder.

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

Part D

Answer any two questions.

- 23. Write the algorithm and draw the flowchart to find the largest among three different numbers entered by user.
- 24. What are Logic Gates? Explain the following logic gates with circuit diagram.
 AND, OR, NOT, NAND, NOR, XNOR.
- 25. Explain any four input and output devices in detail.

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