24U130S (Pages: 2) Name: .....

Reg.No: .....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

CC19U CSC1 C01 - COMPUTER FUNDAMENTALS

(Computer Science - Complementary Course)

(2019 to 2023 Admissions - Supplementary/Improvement)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. What are number systems? List various types of number system.
2. Convert (48)8 to its corresponding decimal number.
3. What is the use of Hamming code?
4. List any two postulates of boolean algebra with its dual.
5. What are canonical forms in Boolean algebra? Give an example.
6. What are AND,OR gates?
7. What are input units? Give any two examples.
8. What are the different types of optical disks?
9. What are functions of Keyboard ?List the types of keys in a keyboard.
10. What are sensors? List various types of sensors.
11. What are the uses of buzzers?
12. What is the advantage of using Algorithm in program planning?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. What are computer codes? Explain different types of computer codes with examples.
14. How will you find the complement of a boolean functions? Explain various methods with suitable examples.
15. How will you construct ANR,OR,NOT gates by using NAND gate only?
16. Write a detailed note on different types of registers in computer architecture.
17. What are the difference between SRAM and DRAM?

18. Write a short note on sensors and its types.

19. What is a flowchart ? What are the symbols used in flowchart?

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Write a detailed note on combinational circuits.

21. Write a detailed note about memory hierarchy.

(1 × 10 = 10 Marks)

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