

19U129A

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Name:

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(Supplementary/Improvement)

(CUCBCSS-UG)

CC15U CSC1 C01/CC17U CSC1 C01 - COMPUTER FUNDAMENTALS

(Complementary Course)

(2015 to 2018 Admissions)

Time: Three Hours

Maximum: 64 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. $(45.3)_6 = (\quad)_7$
2. $(1101.1)_2 - (1010.01)_2 = \underline{\hspace{2cm}}$
3. $A.1 = \underline{\hspace{2cm}}$
4. If $F(A, B, C) = \sum m(1,4,7,9)$ F'' will be $\underline{\hspace{2cm}}$
5. $\underline{\hspace{2cm}}$ holds the current instruction that is being executed.
6. $\underline{\hspace{2cm}}$ act as a buffer between CPU and Main Memory.
7. MICR stands for $\underline{\hspace{2cm}}$
8. $\underline{\hspace{2cm}}$ printers print each character as a pattern of dots.
9. $\underline{\hspace{2cm}}$ is a graphical representation of algorithm.

(9 x 1 = 9 Marks)

PART B

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

10. Convert following decimal number to Excess-3 code
a)10 b)18
11. Realize the XNOR gate with AND, OR, NOT gates.
12. Differentiate between Dynamic and Static RAM
13. What is a Pointing Device?
14. Explain Pseudocode.

(5 x 2 = 10 Marks)

PART C

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

15. Discuss about computer codes.
16. Differentiate between Half adder and Half subtractor.
17. State the theorem principle of duality using truth table.

18. Prepare a short note on registers.
19. Explain about printers.
20. Write a short note on pointing devices.
21. Write the algorithm and flowchart for finding largest among two numbers.
22. Briefly explain about secondary storage devices.

(5 x 5 = 25 Marks)

PART D

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

23. Explain memory mapping techniques in cache.
24. Distinguish between ROM and RAM.
25. Write an algorithm and its flow chart to print odd number in a given range. The range of numbers should be read from the user as input.

(2 x 10 = 20 Marks)
