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Name.....

Reg. No.....

**FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION  
NOVEMBER 2019**

(CBCSS—UG)

Computer Science

BCS 1C 01—COMPUTER FUNDAMENTALS

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A (Short Answer Type Questions)**

*(Answer all questions, each correct answer carries a maximum of 2 marks. Ceiling 20 marks).*

1. What is the function of ALU ?
2. What are error-detecting and correcting codes ?
3. What is the principle of duality in Boolean algebra ?
4. What is a subtractor ?
5. Differentiate bit, byte and nibble.
6. Explain Read Only Memory.
7. List any *four* secondary storage devices.
8. Name any *four* input devices.
9. What is a video digitizer ?
10. What do you mean by 1's complement of a binary number ?
11. What are logic gates ?
12. Write an algorithm to find the biggest of three numbers.

**Section B (Short Essay Type Questions)**

*(Answer all questions, each correct answer carries a maximum of 5 marks. Ceiling 30 marks).*

13. Convert the octal number  $(145.23)_8$  to binary, decimal and hexadecimal number systems.
14. With a diagram explain the functional units of a computer.

Turn over

an double os

15. Write short notes on keyboard.
16. Explain the use of joystick.
17. Explain inkjet and laser printers.
18. Write short notes on digital camera.
19. Explain scanners and its advantages.

**Section C (Essay Type Questions)**

*(Answer any one question, correct answer carries 10 marks)*

20. Explain various basic and universal logic gates with truth tables and diagrams.
21. Write an algorithm and flow chart to find the factorial of a number.

(1 × 10 = 10 marks)