

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

(CBCSS—UG)

Computer Science

BCS 1C 01—COMPUTER FUNDAMENTALS

(2019 Admissions)

24

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.

13

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.

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