

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2020**

Computer Science

BCS 1C 01—COMPUTER FUNDAMENTALS

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. What is cache memory ?
2. What is ECCDIC ?
3. What is parity bit ? Explain its purpose.
4. What is the use of Hamming code ?
5. What is EPROM ?
6. List four output devices.
7. What is a Buzzer ?
8. What is a Trackball ?
9. What is the use of a remote control ?
10. What do you mean by primary memory ?
11. What is a storage device ?
12. How will you get 2's complement of a binary number ?

(8 × 3 = 24 marks)

Turn over

Section B

Answer at least five questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. Explain XNOR gate with truth table and diagrams.
14. Convert $(58.25)_{10}$ to binary, octal and hexadecimal number systems.
15. Explain Binary Coded Decimal and its representation.
16. Explain Product of Sums (POS) with an example.
17. Explain full adder with truth table and diagram.
18. Explain plotters and its characteristics.
19. Write short notes on monitors.

(5 × 5 = 25 marks)

Section C

Answer any one question.

The question carries 11 marks.

20. Explain various symbols used in flowcharting. List the advantages and limitations of flowchart.
21. Explain Boolean postulates and laws of Boolean algebra.

(1 × 11 = 11 marks)