

D 10604

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Name.....

Reg. No.....

FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS—UG)

Electronics

ELE 5D 01—COMPUTER HARDWARE

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer at least eight questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. Distinguish between Microcomputer and Mainframe computer.
2. What is the function of the memory subsystem in a computer ?
3. What is a program development tool ?
4. What is a bus ? What are the major types of buses ?
5. List the hexadecimal numbers in sequence from 380 to 3A0.
6. Find the 2's complement of binary number $(101101)_2$.
7. Write a note on ASCII code.
8. What do you understand by the term logic family ?
9. What is a touch screen ?
10. Differentiate between hardware and software.
11. What is an output device ? Name two output devices.
12. What is multicore technology and how does it relate to multiprocessing ?

(8 × 3 = 24 marks)

Section B*Answer at least five questions.**Each question carries 5 marks.**All questions can be attended.**Overall Ceiling 25.*

13. What are the features of fourth generation computers ?
14. What is ALU ? Explain its function.

Turn over

15. What is the difference between a compiler and an editor ? What facilities are provided by an editor ?
16. Perform the following operation : $(1111)_2 + (1010)_2 - (1100)_2$.
17. Draw the symbol of two input AND gate and explain its operation using truth table.
18. Distinguish between impact and non-impact printers. Categorize dot matrix printer, daisy wheel printer, thermal printer and inkjet printer as impact or non-impact printer.
19. Explain the working of CRT.

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

20. Draw block diagram of basic components of a computer system. Explain each component in detail.
21. Describe briefly any three input devices.

(1 × 11 = 11 marks)