

AH-1156 CV-19
B.Sc. (Part-II)
Term End Examination, 2019-20
INFORMATION TECHNOLOGY
Paper-I

Time: Three Hours

[Maximum Marks: 50]

Note : Answer all questions. All question carry equal marks.

Unit-I

Q. 1. Explain the following:

- a. Gray code
- b. Excess-3 code

Or

Explain the following:

- a. De-Morgan's theorem
- b. K-map

Unit-II

Q. 2. Explain BCD adder in detail.

Or

What do you mean by flip-Hop?

Unit-III

Q. 3. Explain the following:

- a. RTL
- b. Edge triggered flip-flop.

Or

Explain CMOS integrated circuit.

Unit-IV

Q. 4. Explain direct memory access in detail.

Or

Define addressing mode. Explain various types of addressing modes.

Unit-V

Q. 5. Explain cache memory in detail.

Or

What is virtual memory? Explain in detail.