

AE-1250

B.Sc. (Part - II)
Term End Examination, 2016-17

INFORMATION TECHNOLOGY

Paper - I

Digital Circuits and
Computer Hardware

Time : Three Hours] [*Maximum Marks* : 50

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

Unit-I

1. Explain any three types of Binary Codes.
Explain with examples.

OR

Explain K-map and simplification of K-map.

(2)

Unit-II

2. Explain Half Adder and Full Adder.

OR

Explain the following :

- (a) Encoder
- (b) Decoder
- (c) BCD-codes

Unit-III

3. What is Latch ? Explain Edge-triggered Flip-flop.

OR

Define the following :

- (a) TTL
- (b) CMOS
- (c) RTL

Unit-IV

4. Explain the various types of Addressing modes.

OR

What is DMA and IOP ?

(3)

Unit-V

5. Explain the various Memory Management Techniques.

OR

What is Virtual memory ?
