



AF-3084

B.Sc. (Part - III)
Term End Examination, 2017-18

Paper - I

Information Technology

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

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

Unit-I

1. What is power amplifier? Explain the classification of power amplifier with its circuit diagram.

OR

Explain the advantages and disadvantages of push pull power amplifier.

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(Turn Over)

(2)

Unit-II

2. Explain the types of feedback amplifier with diagram.

OR

Describe Barkhausen criteria for sustained oscillator with diagram.

Unit-III

3. What is OP AMP ? Explain the application of OP AMP as inverting and non-inverting amplifier.

OR

Explain the following :

- (i) CMR
- (ii) SCR

Unit-IV

4. Explain the block diagram of 8085 Microprocessor in detail.

OR

Explain the following in 8085 :

- (i) Arithmetic instructions
- (ii) Logical instructions

(3)

Unit-V

5. Explain the data transfer operation of Microprocessor in detail giving example.

OR

Write a program in assembly language to perform loop operation.
