

AE-1288

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

INFORMATION TECHNOLOGY

Paper - I

Amplifiers and Oscillators

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

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

Unit-I

1. Describe Push pull power and coupled power amplifier with its circuit diagram.

OR

Explain Single-ended class A power amplifier and obtain its efficiency.

(2)

Unit-II

2. Explain RF oscillators and Hartley oscillators with diagram.

OR

Explain the advantages of negative and positive feedback in amplifier.

Unit-III

3. What is OPAMP ? Write characteristics of an ideal OPAMP.

OR

Explain the following :

- (i) Application of OPAMP
- (ii) SCR (Silicon Controlled Rectifier)

Unit-IV

4. Explain the Architecture of 8085 Microprocessor with its Pin diagram.

OR

Write short notes on I/O and machine controlled instruction.

(3)

Unit-V

5. What are addressing modes ? Explain the different types of addressing mode used in 8085 Microprocessor.

OR

Write an Assembly program to find Arithmetic Operation (+, -, *) in 8085 Microprocessor.
