

AJ-1191
B.Sc. (Part-III)
Term End Examination, 2021-22
INFORMATION TECHNOLOGY
(Paper-I)

Time : 3 hours]

[Maximum Marks : 50

Note: *Attempt all five questions. One question from each unit is compulsory. All questions carry equal marks.*

Unit-I

1. Explain classification of power amplifier and their requirements.

OR

Explain pushpull power amplifier. What is distortion in power amplifiers? Explain advantages of pushpull power amplifier.

Unit-II

2. What is meant by feedback? Explain types of feedback along with principle of feedback amplifier.

OR

Explain Barkhausen criteria for sustained oscillator.

Unit-III

3. What is differential amplifier? Explain.

OR

What is Op amp? Where are they used? Explain its working.

Unit-IV

4. Explain architecture of 8085 microprocessor.

OR

Explain instruction set of 8085.

Unit-V

5. Write short note on:

- (a) Machine language and Assembly language.
- (b) Instruction Set.

OR

Discuss program looping using subroutines.