



Explain construction of Push-pull power amplifier and its circuit operation with advantages and disadvantages.

## AI-1191

### B. Sc. (Part-III)

Term End Examination, 2020-21

### INFORMATION TECHNOLOGY

*Paper : First*

*Time Allowed : Three hours*

**Maximum Marks : 50**

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

### Unit-I

1. Based on frequencies and mode of operation.  
Explain the classification of power amplifiers.

**Or**

2. Explain principle of feedback amplifier. And its types with advantages.

**Or**

Explain design and circuit of Hartley and Colpetts oscillators.

### Unit-II

3. Explain different applications of Op-Amp.

**Or**

Explain operational Amplifiers and its characteristics.

### Unit-III

4. Explain 8085 microprocessor and its pin diagram.

**Or**

Explain 8085 microprocessor instruction set.

**Unit-V**

5. Explain looping concept of 8085 microprocessor.

Write down 8085 programs to find maximum and minimum of 10 numbers.

**Or**

Explain different operations of microprocessor.