



**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**

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

**Unit-II**

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

**Or**

Explain design and circuit of Hartley and Colpitts oscillators.

**Unit-III**

3. Explain different applications of Op-Amp.

**Or**

Explain operational Amplifiers and its characteristics.

**Unit-IV**

4. Explain 8085 microprocessor and its pin diagram.

**Or**

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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.