

# HALF YEARLY EXAMINATION, 2020-2021

B.Sc. (Information Technology)- Third Year

Paper- I (Code-0928)

## AMPLIFIERS AND OSCILLATORS

Time: 03 Hours

Max Marks: 50

**Note:** - Attempt any 2 questions from each section. Each question has equal marks.

### Section –I

1. What is amplifier? Describe the classification of power amplifier.
2. Explain transformer coupled power amplifier with suitable diagram.
3. Explain single ended class A power amplifier.

### Section –II

4. Draw and explain the 8085 microprocessor architecture.
5. Write any assembly program using data transfer instruction?
6. Explain harmonic distortion in push pull power amplifier.

### Section –III

7. Draw and explain the Intel 8085 pin diagram and their functions.
8. What are addressing modes? Explain in terms of Intel 8085.
9. Explain the following-
  - (i) The 8085 arithmetic instructions
  - (ii) The 8085 logical instructions

### Section –IV

10. Describe the Machine and assembling languages.
11. Write an assembly level program for addition of any two 8 bit numbers?
12. Explain the following-
  - (i) Data transfer Instruction
  - (ii) Machine controlled Instruction

### Section –V

13. Write the Advantages of push pull power amplifier.
14. Describe working of microprocessor.
15. Explain any Looping program of 8085.

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