Subject code: PC222EC Semester: 2nd

Subject name: Analog Electronics ACY: 2021-2022

CLASS TEST-2

1. Answer all questions from part-A
2. Answer all questions from part-B

PART-A

1. Define the classes of operation in power amplifiers (Class A, B, and AB). Explain the qualitative aspects of power efficiency and distortion in these classes.
2. Provide a brief overview of the Crystal Oscillator. How does it differ from other types of oscillators covered in the syllabus?
3. Describe the block diagram of an operational amplifier (OP-AMP). Discuss the ideal characteristics of an OP-AMP and its applications in electronic circuits.

PART-B

1. Compare and contrast the power efficiency and distortion in Class A, B, and AB power amplifiers. Explain the trade-offs associated with different amplifier classes.
2. Discuss the principles and characteristics of Crystal Oscillators. How does a Crystal Oscillator differ from other types of oscillators covered in the syllabus?
3. Provide a detailed overview of the block diagram of an operational amplifier (OP-AMP). Explain the ideal characteristics of an OP-AMP and their significance in electronic circuit design.