Subject code: PC222EC Semester: 2nd

Subject name: Analog Electronics ACY: 2020-2021

CLASS TEST-1

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

PART-A

1. Explain the V-I characteristics of a P-N junction diode. How does it behave in forward and reverse bias? [CO1]
2. What is the purpose of a Zener diode in electronic circuits? Describe one application where Zener diodes are commonly used. [CO1]
3. Discuss the basic differences between common emitter (CE) and common base (CB) configurations of a Bipolar Junction Transistor (BJT). [CO2]

PART-B

1. Discuss the low frequency response of BJT amplifier and the effect of coupling and bypass capacitors. [CO2]
2. Explain full-wave rectifier circuit with neat diagram. [CO1]
3. Explain fixed bias. [CO2]