

**UNIT-I**  
**SINGLE – STAGE MOS and BJT AMPLIFIERS**

**Learning Outcomes**

Upon successful completion of the course, the students will be able to :

**CO1:** Analyze and characterize the MOS and BJT single stage amplifiers at low and high frequencies.

**Syllabus:**

**UNIT- I: Single-Stage MOS and BJT Amplifiers**

**Single-Stage MOS amplifiers:** Three basic configurations, Characterizing Amplifiers, The common-source (CS) amplifier.

**Single-Stage BJT amplifiers:** Basic Structure, The common-Emitter (CE) amplifier.

**High Frequency response:** General considerations, High-frequency response of CS and CE amplifier.

**1.1 Three basic Configurations**

1. In an amplifier, any increase in ac voltage, current, or power is the result of a transfer of energy from the \_\_\_\_\_ [BL2]

- a) resistor
- b) applied dc supply
- c) ground
- d) None of the above

2. When performing DC analysis in a circuit make capacitors in the circuit \_\_\_\_\_ [BL2]

- a) short circuit
- b) open circuit
- c) input side short and output side open
- d) None of the above

3. The basic relationship between input and output currents of a BJT in Common Emitter configuration is \_\_\_\_\_ [BL2]

- a)  $I_b = \gamma I_e$
- b)  $I_c = \alpha I_e$

# Analog Circuits Objective Questions Answers

**Camilla Rothe**



## **Analog Circuits Objective Questions Answers:**

## Decoding **Analog Circuits Objective Questions Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Analog Circuits Objective Questions Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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