

(b) Characteristics

Comparison Criteria	Common Emitter	Common Collector
Voltage gain	Large	None
Current gain	Large	Largest
Input impedance	Medium ($= 1 \text{ K } \Omega$)	High ($= 200 \text{ K } \Omega$)

22.2 PAPER 2 (448/2)

In this paper, candidates were required to do all the five equally weighted and timed practical exercises. The various skills and concepts tested in this paper include the following:-

- a) Connecting various circuits and taking various measurements
- b) Fabricating a sheet metal tracking support bracket using basic metal work tools
- c) Making an extension cable and carrying out the necessary tests on the cable
- d) Identifying a prefabricated unknown circuit and determining its application
- e) Installing socket outlets in radial at specific locations on an installation board.

The paper was quite well done with the candidates acquiring a mean score of 24.47 out of 40%. There were however, some glaring weaknesses noted particularly in the following areas:-

- a) Inability to select and use metal working hand tools to fabricate the required bracket.
- b) Lack of confidence and accuracy in handling measuring tools like ohmmeter, voltmeter and stopwatch.
- c) Failure to determine by calculation the frequency of oscillations for various resistors.
- d) Inability to present an accurate and complete schematic circuit from an actual circuit.
- e) Lack of knowledge of the three basic tests i.e. polarity, continuity and insulation resistance tests required on an extension cable.
- f) Inability to interpret data and draw meaningful conclusion from the data collected.