2.11

1. F
2. F
3. F
4. F
5. T
6. F
7. F

2.12

1. Electron mobility
2. Electronic tubes
3. Mass-produced
4. Low cost
5. IC
6. Gain

2.13

1. The transistor is one of the greatest inventions of the 20th century.
2. Its importance in today’s society rests on its ability to be mass produced using a highly automated process that achieves astonishingly low per-transistor costs.
3. The vast majority of transistors now produced are in integrated circuits (IC) along with diodes, resistors, capacitors and other electronic components, to produce complete electronic circuits.
4. Vacuum tubes
5. Ability to use a small signal applied between one pair of its terminals to control a much larger signal at another pair of terminals
6. Modern transistor audio amplifies of up a few hundred watts
7. For control output signal in proportion to the input signal and can be used to turn current on and off in a circuit as an electrically controller switch
8. Small size, higher reliability, long life, insensitivity to mechanical shock and other
9. They cannot operate with a large voltage and silicon transistor much more sensitive to an electronic pulse