明新科技大學九十二學年度電子工程研究所招生 在職生應用電子學試題

- 1. Describe the characteristics of the three basic transistor amplifiers (common emitter, CC; common base, CB; and common collector, CC). (20%)
- 2. Describe the characteristics of the ideal operation amplifier (OP amplifier). (20%)
- 3. Define the α and β parameters of transistor, then derive their relationship. (20%)
- 4. Using CMOS, figure out the logic circuit of the equation Y=A+B and Y=AB. (20%)
- 5. Design an amplifier with Av=100 by using an operational amplifier (OP) and two resistor. (20%)