編號:

系

288

## 國立成功大學105學年度碩士班招生考試試題

所:電信管理研究所

考試科目: 通訊導論

第1頁,共 | 頁

考試日期:0228, 節次:3

- ※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。
  - 1. Plot block diagram for an FM stereo receiver and explain how it demodulates the R and L voice signals. (20%)
  - 2. Describe the main functions of LNA in a communication system. (20%)
  - 3. Assume a wirless network operator has radio spectrum of 10-MHz bandwidth. The network uses 32QAM and 3/4 code rate. What is the theoretical maximum transmission rates of this wireless network? (20%)
  - 4. Compare the two technologies: circuit switch and packet switch (20%).
  - 5. What is Big Data? What are its possible applications? (20%)