編號:

300

國立成功大學103學年度碩士班招生考試試題

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系所組別: 電信管理研究所乙組

考試科目: 通訊導論

考試日期:0223, 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. Please explain the following terms in detail.

- (a)GPS(5%)
- (b)QAM (5%)
- (c)LTE (5%)
- (d)DWDM (5%)
- 2. Describe how the OFDM technology can be used to solve the ISI problem? (20%)
- 3. Please describe the characteristics of the following two fading types: (20%)
  - (a) frequency-selective and slow fading
  - (b) flat and fast fading.
- 4. Consider a bit stream 1011011100111010. What is the output sequence after a 4x4 block interleaver? (20%)
- 5. Describe in detail the relations among SNR, BER, throughput, and modulation scheme in a digital communication system (20%).