編號: 289 國立成功大學104學年度碩士班招生考試試題

系所組別:電信管理研究所乙組

考試科目: 通訊導論

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考試日期:0212, 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. What are the advantages of digital communications as compared with analog communications? Why the analog FM broadcast is still quite popular today as compared with digital audio broadcast (DAB)? (20%)
 - 2. Describe the main functions of a mixer in a communication system and indicate its principles. (20%)
 - 3. What is Internet of Things (IoT)? Indicate its main characteristics and possible applications. (20%)
 - 4. Describe in detail the principles of FFT. Take a few examples to explain its applications in a real-world communication system (20%).
 - 5. In practice, the WLAN or 802.11 technique uses unlicensed frequency bands (2.4 GHz and 5 GHz). In contrast, the 3G/4G wireless communication technique must use licensed frequency bands (900MHz/1800MHz/2200MHz). What are the possible reasons behind the above regulations? (20%)