

# Coding Theory: Reading Quiz 01

Name : \_\_\_\_\_ Student ID # : \_\_\_\_\_ Score : \_\_\_\_\_

Read section 1 of chapter 15 (pages 303-305).

1. What is  $\text{char } F$  for a field  $F$ ? Find the definition somewhere in Chapter 14.

2. State Theorem 15.1.1 and prove it by using your own language in Chinese.

3. State the following Lemmas.

(a) Lemma 15.1.2

(b) Lemma 15.1.3

(c) Lemma 15.1.4

(d) Lemma 15.1.5