King Fahd University of Petroleum & Minerals

Department of Mathematical Sciences

Math552 "Galois Theory"

Semester 071 (Fall 2007)

Dr. Jawad Y. Abuihlail

First Take Home Exam (Due: 1.12.2007, 1:00 pm)

Remarks:

1. All questions are from the textbook "T. Hungerford, *Algebra*, Springer (1974)".

2. Give *self-contained* proofs and arguments.

Solve 16 questions from the following list, (including <u>at least</u> 10 with "∗").

Section	Questions
V.1	$2^*, 6^*, 11, 13, 15, 16^*, 18, 21, 25$
V.2	$2^*, 3, 4, 5, 6, 9^*, 10, 11, 13^*, 15^*$
V.3	$(2^* \ \& \ 3^*), 8, (9 \ \& \ 10), 12, 13^*, 16^*, 20^*, 25^*$
V.4	$2^*, 3^*, 4, 5, 9^*, 10^*, 11^*, 12, 13^*, 14^*$

Grades

#	Section	Question*	Grade/14	#	Section	Question	Grade/10
1.				**11**.			
2.				**12**.			
3.				**13**.			
4.				**14**.			
5.				**15**.			
6.				**16**.			
7.							
8.							
9.							
10.							
		Total				**Total**	