King Fahd University of Petroleum & Minerals Department of Mathematical Sciences Math553 "Homological Algebra" Semester 062 (Spring 2007) Dr. Jawad Y. Abuihlail Second Take Home Exam (Due: 9.06.2007, 1:00 p.m.)

Remarks:

- 1. All questions are from the textbook "M. Osborne, *Basic Homological Algebra*, Springer (2000)".
- 2. Give self-contained proofs and arguments.

Solve 10 questions from the following list, (including Exercise 5.4 and <u>at least</u> 5 questions that are marked with "*"):

Chapter	Questions		
4	$1^*, 4^*, 5, 6^*, 7, 8^*, 9^*, 11$		
	$12^*, 14, 15^*, 16, 17$		
5	$1, 2, 4, 6, 7, 8^*, 9^*$		

<u>Grades</u>

#	Chapter	Question	Grade/20
1.			
2.			
3 .			
4.			
5 .			
6.			
7 .			
8.			
9.			
10.			
		TOTAL	