

King Fahd University of Petroleum & Minerals

Department of Mathematical Sciences

Math551 “Abstract Algebra”

Semester 072 (Spring 2008)

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First Take Home Exam (Due: 20.4.2008, 6:30 pm)

Remarks:

1. All questions are from the textbook “P. Grillet, *Abstract Algebra*, 2nd edition, Springer (2007)”.
2. Give *self-contained* proofs and arguments.

Solve 20 questions from the following list (including at least one from each section and at least 10 with “*”).

Section	Questions
III.1.	5, 6*, 12*
III.2.	6*, 7, 9
III.3.	4*, 8*, 9
III.4.	3, 4
III.5.	5, 6*, 14*
III.6.	3*, 7
III.7.	2, [5 & 6]*, 9
III.8.	1*, 2, 3*, 7, 11, 12*, 13
III.10.	3*, 4*, 6, 7*, 9, [only one of 10, 11, 12, 13]*, 14*
III.11.	2*, 3, 5*
VII.1.	2, 3, 13*, 14, 15*, 17, 18, 19, 20*, 21*
VII.4.	4*, 5*, 7, 9*, [one of 10, 11, 12], 13*, 14*
VIII.1.	2, [5 or 6]*, [7 or 8], 20*
VIII.2.	4, 6*, [one of 8, 9, 10]
VIII.3.	2, 5, 7*, 10, 12*, 14, 15, 17*, 18

Grades

#	Section	Question	Grade/8	#	Section	Question*	Grade/12
1.				11.			
2.				12.			
3.				13.			
4.				14.			
5.				15.			
6.				16.			
7.				17.			
8.				18.			
9.				19.			
10.				20.			
		Total				Total	