

DEPARTMENT OF MATHEMATICS

ORAL EXAMINATION

Major area: COMBINATORIAL MATHEMATICS

Part I: Combinatorics

- (1) H. Wilf, “generatingfunctionology”, Academic Press, 1990.
- (2) H. Wilf, “A=B”, Sections 3.1, 3.2, 3.3, 3.5
4.1, 4.2, 4.3, 4.4
5.1, 5.2
- (3) Richard A. Brualdi, “Introductory Combinatorics”, Chapter 9-13.

Part II: Graph Theory

Diestel, Graph Theory

Sections: 2.1, 2.2, 4.1, 4.2, 4.4, 5.1-5.3, 9.1, 9.2, 10.1-10.2, 11.1-11.3

Part III: Algorithms

Use "Algorithms & Complexity" (H. Wilf). Chapters 0,1,2,5.