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SENIOR CERTIFICATE**

GRADE 12

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SEPTEMBER 2023
MARKING GUIDELINES**

MARKS: 150

This marking guideline consists of 13 pages.

June Math P1 2013 Memo

S Ben Porath



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Generalized Descriptive Set Theory and Classification Theory Sy-David Friedman, Tapani Hyttinen, Vadim Kulikov, 2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences. In this paper, the authors study the generalization where countable is replaced by uncountable. They explore properties of generalized Baire and Cantor spaces, equivalence relations, and their Borel reducibility. The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case. They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations. The authors' results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations.

Set Theory for Computing Domenico Cantone, Eugenio Omodeo, Alberto Policriti, 2013-06-29 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods. Mastering today's variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates. The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems, data types, and solution methods, algorithmic program verification, and automated deduction. The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods. This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning.

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