

Time: 60 minutes

Dec 20, 2023

Marks: 33M

Instructions:

- Answer all the questions in the separate answer sheet provided.
- Use the last page of the Part B answer sheet for rough work.
- No rechecks will be entertained for the overwritten answers.
- MCQ Questions can have more than one option correct. Marks will be awarded only when all correct options are marked.
- Questions 1 to 13 are for 1M. Questions 14 to 18 are for 2M. Q19 is for 6M. Q20 is for 4M.
- **IF YOU HAVE A DOUBT / CLARIFICATION, make your assumption, state it and write. PLEASE DON'T CALL THE INSTRUCTOR.**

1. Which of the following is/are TRUE?
 - a. Disproving a sequent in propositional logic is a decidable problem
 - b. Proving a sequent in propositional logic is a decidable problem
 - c. Proving a sequent in predicate logic is an undecidable problem
 - d. Disproving a sequent in predicate logic is a decidable problem
2. Which of the following is/are TRUE?
 - a. Checking the validity of a predicate logic formula is undecidable
 - b. Checking the satisfiability of a predicate logic formula is undecidable
 - c. Checking for semantic entailment of a predicate logic sequent is decidable
 - d. None of the above are TRUE
3. Which of the following is/are TRUE?
 - a. Propositional Logic is both sound and complete
 - b. Predicate Logic is both sound and complete
 - c. Temporal Logic is sound
 - d. Floyd Hoare's Logic is not sound
4. Which of the following is/are TRUE?
 - a. Temporal Logic (LTL/CTL) accepts Brouwer's argument
 - b. Temporal Logic (LTL/CTL) does not accept Brouwer's argument
 - c. Brouwer's argument is not applicable to Temporal Logic
 - d. LEM and PBC have no connection with Temporal Logic proofs
5. Which of the following is/are TRUE?
 - a. Every formula in LTL can be expressed in CTL
 - b. Every formula in CTL can be expressed in LTL
 - c. Not every LTL formula can be expressed in CTL
 - d. Not every CTL formula can be expressed in LTL
6. Which of the following sets is/are adequate to represent LTL formulas?
 - a. $\{X, U\}$
 - b. $\{G, W\}$
 - c. $\{F, R\}$
 - d. $\{X, R\}$

June 13 F214 Exam Paper Student Room

Ying Liu



June 13 F214 Exam Paper Student Room:

This book delves into June 13 F214 Exam Paper Student Room. June 13 F214 Exam Paper Student Room is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into June 13 F214 Exam Paper Student Room, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to June 13 F214 Exam Paper Student Room
- Chapter 2: Essential Elements of June 13 F214 Exam Paper Student Room
- Chapter 3: June 13 F214 Exam Paper Student Room in Everyday Life
- Chapter 4: June 13 F214 Exam Paper Student Room in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of June 13 F214 Exam Paper Student Room. The first chapter will explore what June 13 F214 Exam Paper Student Room is, why June 13 F214 Exam Paper Student Room is vital, and how to effectively learn about June 13 F214 Exam Paper Student Room.
3. In chapter 2, this book will delve into the foundational concepts of June 13 F214 Exam Paper Student Room. This chapter will elucidate the essential principles that must be understood to grasp June 13 F214 Exam Paper Student Room in its entirety.
4. In chapter 3, this book will examine the practical applications of June 13 F214 Exam Paper Student Room in daily life. This chapter will showcase real-world examples of how June 13 F214 Exam Paper Student Room can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of June 13 F214 Exam Paper Student Room in specific contexts. The fourth chapter will explore how June 13 F214 Exam Paper Student Room is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about June 13 F214 Exam Paper Student Room. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of June 13 F214 Exam Paper Student Room.

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