

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. $\{X, R\}$

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R Bogdan



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Table of Contents June 13 F214 Exam Paper Student Room

1. Understanding the eBook June 13 F214 Exam Paper Student Room
 - The Rise of Digital Reading June 13 F214 Exam Paper Student Room
 - Advantages of eBooks Over Traditional Books
2. Identifying June 13 F214 Exam Paper Student Room
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an June 13 F214 Exam Paper Student Room
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 13 F214 Exam Paper Student Room

- Personalized Recommendations
 - June 13 F214 Exam Paper Student Room User Reviews and Ratings
 - June 13 F214 Exam Paper Student Room and Bestseller Lists
5. Accessing June 13 F214 Exam Paper Student Room Free and Paid eBooks
- June 13 F214 Exam Paper Student Room Public Domain eBooks
 - June 13 F214 Exam Paper Student Room eBook Subscription Services
 - June 13 F214 Exam Paper Student Room Budget-Friendly Options
6. Navigating June 13 F214 Exam Paper Student Room eBook Formats
- ePub, PDF, MOBI, and More
 - June 13 F214 Exam Paper Student Room Compatibility with Devices
 - June 13 F214 Exam Paper Student Room Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of June 13 F214 Exam Paper Student Room
 - Highlighting and Note-Taking June 13 F214 Exam Paper Student Room
 - Interactive Elements June 13 F214 Exam Paper Student Room
8. Staying Engaged with June 13 F214 Exam Paper Student Room
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 13 F214 Exam Paper Student Room
9. Balancing eBooks and Physical Books June 13 F214 Exam Paper Student Room
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 13 F214 Exam Paper Student Room
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine June 13 F214 Exam Paper Student Room
- Setting Reading Goals June 13 F214 Exam Paper Student Room
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 13 F214 Exam Paper Student Room

- Fact-Checking eBook Content of June 13 F214 Exam Paper Student Room
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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