

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

AN Whitehead



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Unveiling the Magic of Words: A Report on "**June 13 F214 Exam Paper Student Room**"

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