

Do not write solutions on this page.

Section B

Answer all questions in the answer booklet provided. Please start each question on a new page.

7. [Maximum mark: 13]

The temperature of a cup of tea, t minutes after it is poured, can be modelled by $H(t) = 21 + 75e^{-0.05t}$, $t \geq 0$. The temperature is measured in degrees Celsius ($^{\circ}\text{C}$).

- (a)
 - (i) Find the initial temperature of the tea.
 - (ii) Find the temperature of the tea three minutes after it is poured.
- (b) Write down the value of $H'(3)$.
- (c) Interpret the meaning of your answer to part (b) in the given context.
- (d) After k minutes, the tea will be below 67°C and cool enough to drink.

Find the least possible value of k , where $k \in \mathbb{Z}^+$.

As the tea cools, $H(t)$ approaches the temperature of the room, which is constant.

- (e) Find the temperature of the room.
- (f) Find the limit of $H'(t)$ as t approaches infinity.

Science 2assignment Let Banswer

Julia Schneider



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Computer Science - Theory and Applications Anna Frid, Andrei S. Morozov, Andrey Rybalchenko, Klaus W. Wagner, 2009-08-03 This book constitutes the refereed proceedings of the Fourth International Computer Science Symposium in Russia CSR 2009 held in Novosibirsk Russia August 18-23, 2009. The 29 revised papers presented together with 4 invited papers were carefully reviewed and selected from 66 submissions. All major areas in computer science are addressed. The theory track deals with algorithms, protocols, and data structures, complexity, and cryptography, formal languages, automata, and their applications to computer science, computational models, and concepts, proof theory, and applications of logic to computer science. , **Transportation Science**, 2006 Publishes original contributions and surveys associated with all modes of transportation including planning, design, economic, operational, and social. **Physics Extension File** Jim Breithaupt, 2002 This physics extension file includes teaching notes, guidance on coursework activities, and equipment. It has at least one assignment for each topic in the textbooks suitable for classwork and homework. A comprehensive range of practical activities are included. It contains extensive Key Skills and ICT materials. An exam file resource containing a complete set of exam-style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included. **Automatic Control 1990** Ü Jaaksoo, 2014-05-23 This volume provides a general overview on the state of the art and future developments in automation and control. The application of systems and control in all areas is covered from the social and cultural effects of control to control in mineral and metal processing. This volume will be an invaluable source of information to all those interested in the areas of automation and control. **Nuclear Science Abstracts**, 1974 *Explore and Discover 5 Tm' 2004 Ed.*, **Robotics** Hugh F. Durrant-Whyte, Nicholas Roy, Pieter Abbeel, 2012 This volume presents the proceedings of the seventh annual Robotics Science and Systems conference held in 2011 at the University of Southern California. It spans a wide spectrum of robotics, bringing together researchers working on the algorithmic or mathematical foundations of robotics. ED by Durrant Whyte, CEO of ICT Australia. *Constraint-based Reasoning* Eugene C. Freuder, Alan K. Mackworth, 1994 Constraint-based reasoning is an important area of automated reasoning in artificial intelligence with many applications. These include configuration and design problems, planning and scheduling, temporal and spatial reasoning, defeasible and causal reasoning, machine vision, and language understanding, qualitative and diagnostic reasoning, and expert systems. Constraint-Based Reasoning presents current work in the field at several levels: theory, algorithms, languages, applications, and hardware. Constraint-based reasoning has connections to a wide variety of fields including formal logic, graph theory, relational databases, combinatorial algorithms, operations research, neural networks, truth maintenance, and logic programming. The ideal of describing a problem domain in natural declarative terms and then letting general deductive mechanisms synthesize individual solutions has to some extent been realized and even embodied in programming languages. Contents: Introduction E. C. Freuder, A. K. Mackworth. The Logic of

Constraint Satisfaction A K Mackworth Partial Constraint Satisfaction E C Freuder R J Wallace Constraint Reasoning Based on Interval Arithmetic The Tolerance Propagation Approach E Hyvonen Constraint Satisfaction Using Constraint Logic Programming P Van Hentenryck H Simonis M Dincbas Minimizing Conflicts A Heuristic Repair Method for Constraint Satisfaction and Scheduling Problems S Minton M D Johnston A B Philips and P Laird Arc Consistency Parallelism and Domain Dependence P R Cooper M J Swain Structure Identification in Relational Data R Dechter J Pearl Learning to Improve Constraint Based Scheduling M Zweben E Davis B Daun E Drascher M Deale M Eskey Reasoning about Qualitative Temporal Information P van Beek A Geometric Constraint Engine G A Kramer A Theory of Conflict Resolution in Planning Q Yang A Bradford Book *Proceedings of the 35th Annual ACM Symposium on the Theory of Computing* ,2003

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